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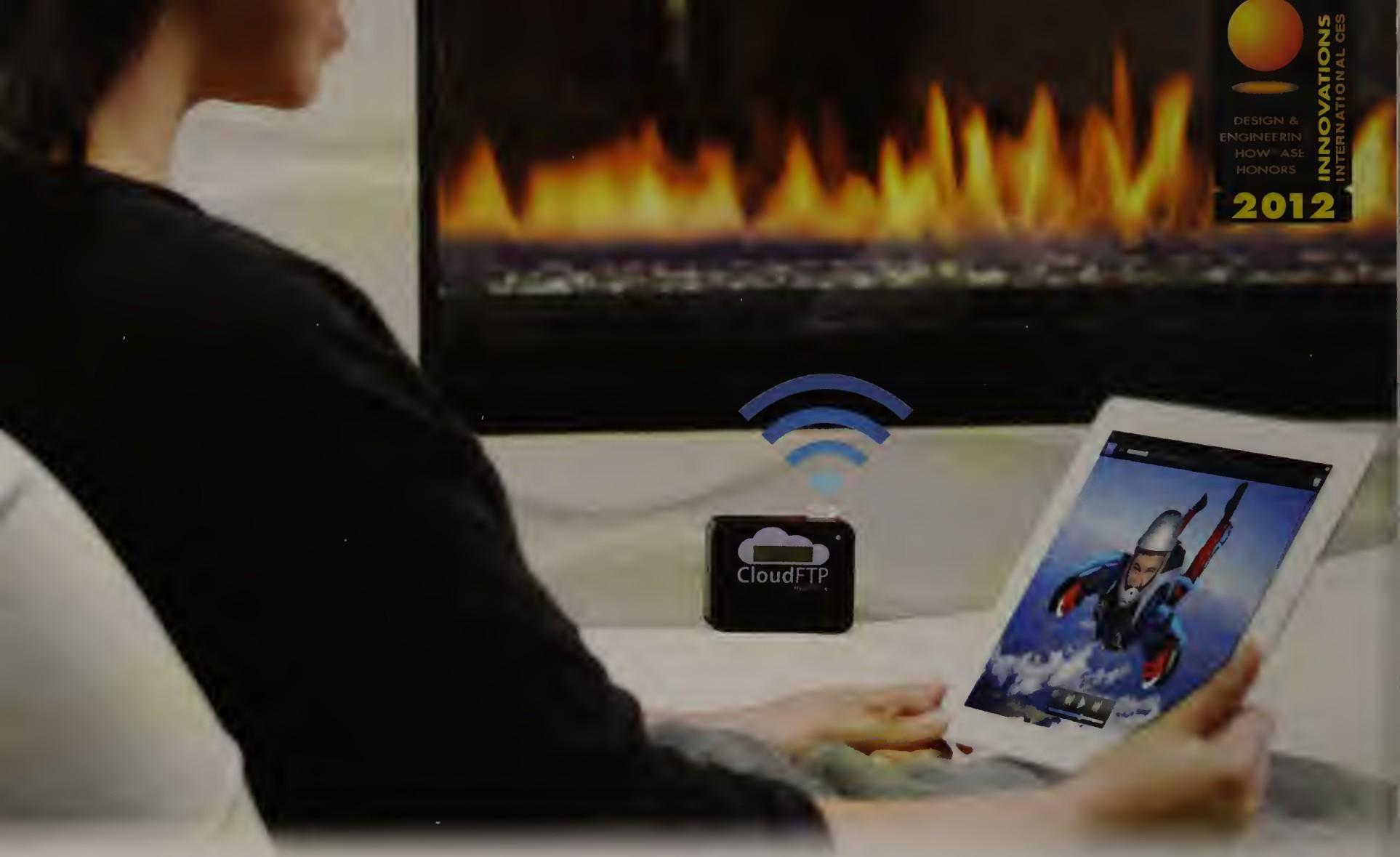
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Q&A: FLASHBACK
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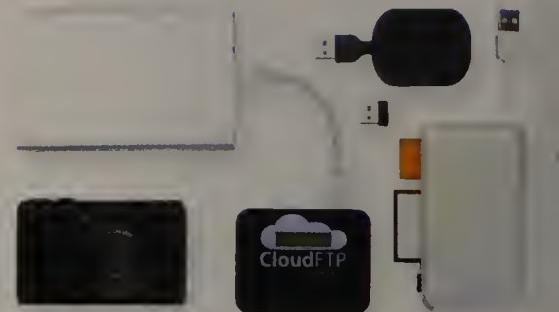


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FTP Server

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34 Business Class



On the Cover

Photograph by Peter Belanger

CONTENTS

July 2012

COVER STORY

34 Business Class

Sure, you can get basic work done on an iPad, but how about heavy-duty chores—like editing Office documents, moving files from your tablet to your Mac and back, and more? We found a slew of apps that are up to the job.

FEATURE

48 Life after MobileMe

With Apple's online service set to expire, and the company's Web builder, iWeb, on the decline, it's time to find your site a new home. Many hosting services and tools stand ready to fill the gap. We explain how to make the transition successfully.

OPINION

5 From the Editor's Desk

With appropriate parental supervision, technology can enhance, not harm, your child's development.

11 Feedback

Readers respond.

MAC USER

12 The Flashback Trojan Horse Explained

We tell you how to deal with it and what it means for the future of Mac security.

14 BBEdit Text Editor Turns 20

16 100 Thunderbolt Devices in 2012, Says Intel

PLUS: Hot Stuff 22

18 Mac Gems

Toggle Wi-Fi on and off via a keyboard shortcut, remove all screen distractions as you write, tweak Lion's appearance, and more.

iOS CENTRAL

24 Configuring a Kid-Friendly iPad

Before you pass your old iPad on to your child, take the time to set it up properly so it will be useful, fun, and safe for them to use.

26 Three Ways to Save Space on Your iOS Device

26 AT&T to Unlock Out-of-Contract iPhones

PLUS: Reviews 32

30 App Guide

Each month, we review the App Store offerings that have caught our eye.

WORKING MAC**60 Four Ways to Free Up Drive Space**

Macworld editors offer up four strategies they use themselves to clear unwanted files from their drives and make room for new ones.

62 How to Send Group Emails with Mail

64 REVIEW FileMaker Pro 12

PLUS: Reviews 66

**PLAYLIST****68 Rip Smarter, Rip Better**

Create custom HandBrake presets to rip DVDs for playback on specific devices.

69 Netflix Boss Blasts Comcast

70 Ask the iTunes Guy: Compression and Lossless Encoding

PLUS: Reviews 72, Hot Stuff 74

**CREATE****76 Send Video Messages the Easy Way via Mail**

Stay in touch with family and friends who lack a videoconferencing setup by sending them a quick video with the help of Apple's Mail app.

78 Add a Time Stamp to an iMovie File

80 Quick Tips for Shooting Distinctive Photos

81 Photo Measures Calculates Your Space

HELP DESK**82 Mac OS X Hints**

Customize shortcuts for Mission Control and Dashboard, search for messages by domain, convert songs at higher bit rates, and more.

84 Mac 911

Understand how the Apple TV mirrors your iPad to your TV, fix a malfunctioning optical drive, delete files securely, and more.

BACK PAGE**96 Spotlight**

When you customize your Mac to reflect the way you work, you transform yourself from a passive technology-taker into a technology-maker.

MULTIMEDIA AT MACWORLD.COM

Check out our latest podcasts, slideshows, and videos

**Podcast: Adobe Talks CS6**

Senior Editor Jackie Dove talks to Adobe about the company's latest collection of apps for creative professionals (macworld.com/a/1166537).

We also recommend:

Video: Working with Mission Control (macworld.com/a/1166220).

Slideshow: Ten Retina Display-Friendly iPad Apps (macworld.com/a/1166350).

Video: Set Up Google Calendar, Contacts on Your iPad (macworld.com/a/1166564).

Podcast: An Offer of iTunes Advice (macworld.com/a/1166426).



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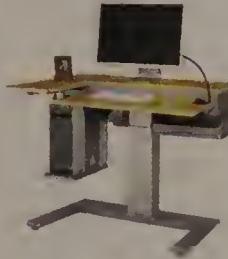
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Go Outside and Play

Tech skeptics say iPads are bad for kids. They haven't met my daughter.

In this month's *iOS Central*, I write about how to configure an old iPad for a child (see page 24). While I hope most readers will react positively to that story, I also expect a few of them will let me know that exposing a child to an iPad will lead to a machine-dependent future devoid of fresh air, firm muscle tone, and true human interaction.

We can all agree that spending 18 hours a day glued to any one thing—a social network, an online game, a tavern, a racetrack, or a shopping channel—is the sign of a larger problem. But in my daughter's case at least, I'd argue that iOS devices—and the experiences she and I have shared with them—have enhanced her life in a variety of ways.

Identification

For example, take the time a couple of summers ago when we were on vacation in Hawaii. My daughter and I were sitting outside, looking at the clear night sky. Seeing three bright objects lined up together, she asked, "What are those?"

"Probably planets, but let's see."

I pulled out my iPhone, fired up Star Walk (macworld.com/7779), gave the app my location, and pointed the phone at the three objects. The iPhone's display mirrored what we saw before us in the night sky. Sure enough, they were Venus, Mars, and Saturn. In the app, we tapped on Saturn to learn about its rings.

That same trip, we used the iPhone to identify fish we saw while snorkeling and birds we heard while hiking. We learned about the goddess Pele and the islands' origin while visiting a volcano.

Ask my daughter what she recalls from our trip, and it's not the sunscreen she wore or the chocolate-covered macadamia nuts. It was the sky, the fish, the birds, and the islands. She could have learned some of that without the iPhone. But having that technology with us in "teachable moments" made the lessons stick.



Sit down with your kid and use that iPod as a tool that teaches as well as entertains.

Exploration

Another example: Like me, my daughter is innately musical. However, having taken piano lessons since the age of four, I wanted to give her more choice about when (or if) she would begin to explore music. I showed her a few things on the piano and suggested that she try to pick out some songs (while I discreetly left the room). That experiment confirmed that she has the knack. So we signed her up for lessons, and it seems to be going OK.

One day, I heard her picking out the familiar tune of Beethoven's "Für Elise."

"Where did you learn that? It wasn't in one of your lessons."

"Oh, I was playing it in Magic Piano and I sounded it out."

(If you don't know, Magic Piano is an app that lets you play tunes on a virtual keyboard; it also allows you to choose selections from a songbook and learn to play them as part of a game [macworld.com/7775].)

From Magic Piano, my daughter was able to get the general topography of the song—its rhythm and the distance

between notes. Because she has a good ear, she could then successfully map what she'd learned to the piano.

Yes, a teacher could have taught her the piece; with repeated listening, she might have eventually picked it out on her own. But Magic Piano taught her much of what she needed to do without capital-T *Teaching* her. Not only did she have fun learning, but it helped instill the confidence that she could translate what she heard from her ears to her head to her fingers.

I saw the same thing happen with Draw Something, which helped her sketch things that someone else could actually identify (macworld.com/7776). Thanks to iStopMotion for iPad, we've tried our hands at stop-motion animation (macworld.com/7780). Her monthly iTunes allowance has taught her that free is good, which has led her to download a fair number of free (read: classic) books. She may not be up on *Twilight*, but she's read Conan Doyle and Verne.

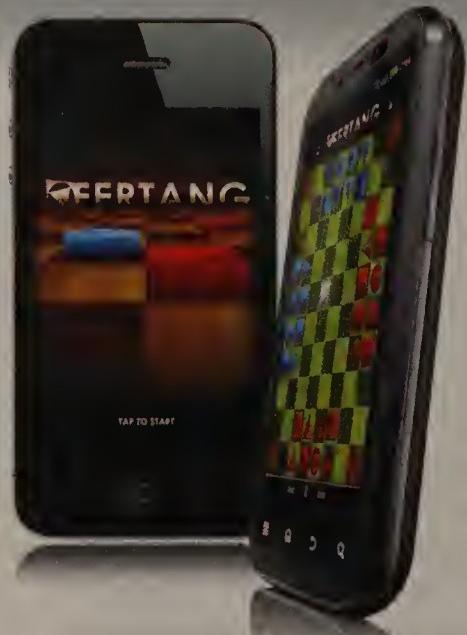
What Hasn't Changed

Can technology in the form of too-much-of-a-good-thing ruin a kid? Of course. As can too many sweets, too little sleep, and too little or too much discipline.

But the answer isn't to deny a child technology. Rather—as has always been the case—it's to pay attention and participate. Throwing an iPod touch full of games at a child and leaving them to their own devices is no more helpful than planting them in front of a TV all day. Sit down with your kid and use that iPod as a tool that teaches as well as entertains, and show some enthusiasm for what the device can teach you (and know when to put it down). In doing so, you'll have gained a powerful ally in raising your child.

Christopher Breen is a senior editor for Macworld.

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End of an Era

Our readers debate how to best weather the changes as MobileMe sets off into the sunset; meanwhile, users muse over the usefulness of the iPad as a learning device for children.

MISSING FROM iCLOUD

I'm a big .Mac Gallery user who's looking for an alternative.

From what I've seen, SmugMug galleries and templates really look great, and they do a fantastic job of showing off your photos. One of the big reasons I paid for .Mac was Gallery, so I'd be saving \$40 per year by going to SmugMug. But one feature that seems to be missing is the ability to let your friends or family members upload additional photos to a gallery—that's something .Mac Gallery lets you do. It's not a deal-breaker feature, but nice to have.

nulzilla, via the Macworld.com forums



Maybe I was one of the few that actually benefited from iWeb, iDisk, and Gallery and used them every day. iDisk was convenient, built right into the OS, and reliable. I had no problems. Now I must replace this functionality somehow. I think it was a big mistake for Apple to dismantle this service that people paid for and announce a new service with less functionality.

mrbach, via the Macworld.com forums

Apple's biggest problem with iCloud is that it offers far less than the service it replaces. If only Apple could or would get Documents in the Cloud to work on iOS and Lion, then it might be worth the effort.

PLAYING WITH THE iPAD

Our iPad is a tool. Sometimes for learning, sometimes just for fun. I'm learning some interesting things about my kids. One of them is obsessed with maps. Loves the Maps application and draws startlingly good reproductions. It might point to future directions for him. Like many things, it's a good thing when used in moderation and should be part of a rounded experience.

palane, via the Macworld.com forums

[For more on this topic, see "Configuring a Kid-Friendly iPad" in iOS Central, page 24.—Ed.]

All reader communications to Macworld—through mail, email, our social networking accounts, and our online forums—are presumed to be intended for publication. We reserve the right to edit them.

FAREWELL, MOBILEME

Our Twitter followers tweet about the MobileMe transition:

- @BryantBelarmino: Wish they would bring back iDisk. iCloud is lacking without it.
- @Tiems: Won't switch until apple forces me too. Still hoping for a way of unifying it with my separate iTunes account.
- @emilcar: My wife has an iMac Core Duo, so she is waiting for new iMacs in order to switch to OS Lion and iCloud.
- @macbrass: Waiting for @barebones to upgrade Yojimbo to iCloud before I can switch. Hopefully soon.

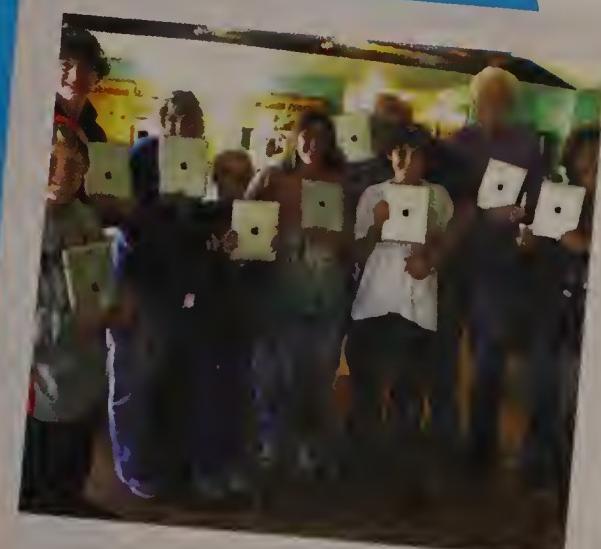
The fact that it is free is iCloud's only saving grace, but frankly, I was *happier* paying for MobileMe.

MadAxeMan, via the Macworld.com forums

THROUGH THE LENS: iPADS FOR EVERYONE

"Eight members of my family visited from Southern California this week. Altogether, there were 21 Apple devices in the house: five iPods, nine iPads, four iPhones, one MacBook, and two iMacs."—**Philip Russell**

Have a great Apple-centric photo? Send it to letters@macworld.com, and we may feature it in a future issue.



The Flashback Trojan Horse Explained

We've entered a new era in Mac security, but there's no need to panic

BY RICH MOGULL

Q&A

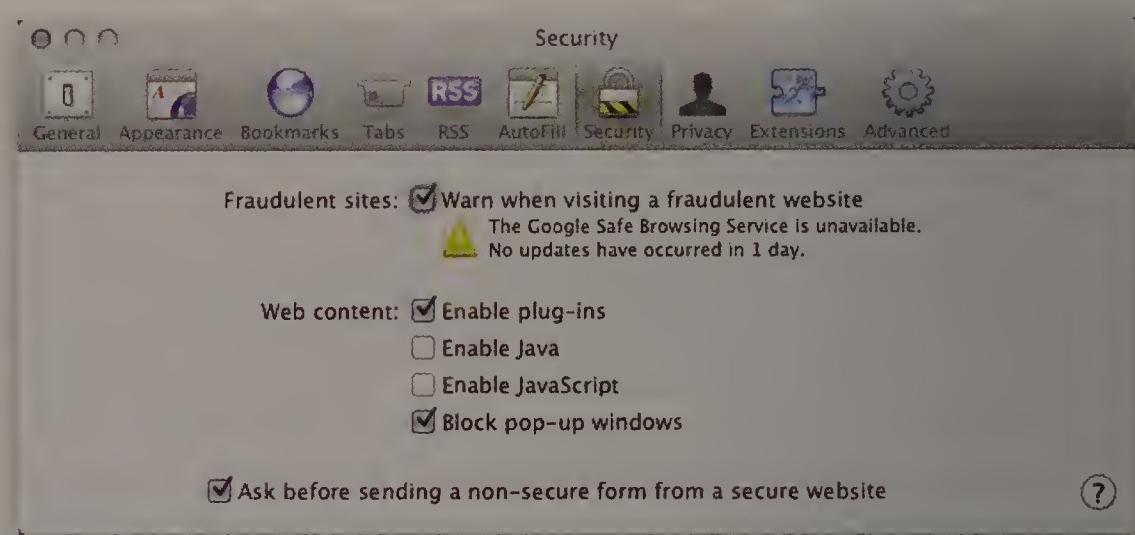
In April, Russian antivirus vendor Dr. Web published strong evidence that more than 500,000 Macs have been infected by the latest variant of the Flashback Trojan horse. Flashback appears to be the most widespread Mac malware we've seen since the days when viruses were spread on infected floppy disks. It could be the single most significant malware infection to ever hit the Mac community.

Here's what you need to know about Flashback, what you can do, and what it means for the future of Mac security.

Q: First things first: What is the Flashback Trojan horse?

A: Flashback is a malicious software program, discovered in September 2011, that masqueraded as an installer for Adobe Flash. The original version of Flashback relied on users to install it, but this new form uses an unpatched Java vulnerability to install itself.

When you visit a website hosting Flashback, it attempts to display a specially crafted Java applet. If you have a vulnerable version of Java installed and



Safari Settings Turning off Java in Safari helps prevent Flashback from infecting your Mac.

Flashback inserts itself into Safari and appears to harvest information from your Web browsing activities, including usernames and passwords. It sends this information to command-and-control servers on the Internet.

Q: Who is at risk of being infected by Flashback?

A: You are at risk if you meet any of these four criteria:

1. You have Java installed on your Mac.

(you're running Snow Leopard) installed, or you were infected before either of them was installed. Both of those updates install Java version 1.6.0_31.

3. You allow Java applets to display in your browser. In Safari, go to Preferences ▶ Security ▶ Web Content and see if the Enable Java option is checked.

4. You do not have any of the security tools installed on your Mac that Flashback checks for, including Little Snitch, Xcode, and a few anti-malware tools.

Q: How can I tell if my computer is infected by Flashback?

A: Apple has released an update to remove the malware (see "Remove Flashback from an Infected Mac"). Antivirus products should also detect whether you have the latest signatures installed. (Usually, you can update manually in your security app's preferences, but this varies from product to product; most update automatically.)

Flashback doesn't necessarily mean that Macs will soon be as laden with malware as Windows computers.

enabled in your Web browser, the malicious code will infect your system.

Flashback then pops open a Software Update window to obtain your administrative password, to embed itself more deeply into your Mac. Even if you aren't fooled at this point, you are still infected.

Open the Terminal app (located in /Applications/Utilities) and type **java -version** at the prompt. A version number appears if Java is installed.

2. You do not have the Java for OS X Lion 2012-001 (if you're running Lion) or Java for Mac OS X 10.6 Update 7 (if

Q: How can I protect myself from Flashback?

A: Run Software Update and make sure you have the latest patches. This will prevent any infections that exploit the current vulnerability.

Disable Java in Safari and other Web browsers. In Safari, go to Preferences ▶ Security ▶ Web Content and uncheck Enable Java.

Uninstall Flash and use Google Chrome as your browser. Chrome includes an embedded, sandboxed (access to your system is limited) version of Flash that reduces the chances of infection. I still use Safari, but when I need Flash I switch to Chrome.

If you don't need Java at all, disable it. The Java Preferences utility is in /Applications/Utilities; uncheck the boxes next to the versions listed in the General tab. Be careful, though: Some programs (such as CrashPlan) require it.

I haven't allowed Java to run in my browser for some years now. Mac antivirus tools may help, but they still don't catch everything. That said, the current programs are far less intrusive and performance-imparing than they used to be; some of them (including Sophos and ClamXav) offer free versions. Remember, you can still be infected by new malware if those tools don't specifically protect against it.

Q: What does this mean for the future of malware on Macs?

A: Most Mac malware hides itself inside software programs that the average user is unlikely to install. But Flashback is far more serious, because it can infect a vulnerable computer without user interaction. Dozens of new variants have been detected, which means the malware authors are working hard to extend the life of the infection.

Flashback doesn't necessarily mean that Macs will soon be as laden with malware as Windows computers. But the future of the platform's security depends a lot on Apple and good old-fashioned luck.

Apple has been introducing a series of technologies—tools like Address Space Layout Randomization (ASLR), sandboxing, and data-execution prevention (DEP)—to reduce the chances of exploitation even when a Mac is vulnerable and to limit the potential damage of an attack. But these technologies aren't perfect, especially when complex programs that run Web content like Java or Flash are involved.

Apple clearly needs to be quicker about patching software that's known to be vulnerable. After the success of Flashback,

we can only assume the bad guys will move more quickly the next time. Apple should consider sandboxing Safari even further. It should also explore the possibility of sandboxing Flash and Java independently; if the latter isn't technically feasible, the company should work more directly with the vendors of those technologies to develop sandboxed Mac versions.

Gatekeeper, a security feature in the upcoming OS X Mountain Lion release, will significantly change the game for manually installed Trojan horses; it will make that form of attack much less profitable (and thus less likely).

Attackers clearly care more about Macs

now. But we need to keep our perspective: There's still far less malware aimed at Macs than at, say, Android phones.

Nevertheless, Flashback is a significant development. We'll see more malware on Macs, but as long as we all take precautions

and stay vigilant, the attacks will be infrequent events rather than the continuous onslaught of epidemics that some observers are predicting.



Rich Mogull has worked in the security world for 18 years. He writes for TidBITS and works as a security analyst through Securisis.com.

Remove Flashback from an Infected Mac

Apple's Java update for OS X removes most common variants of the Flashback malware. The update also reconfigures the Java plug-in so that it disables automatic execution of Java applets by default. You can reenable automatic Java applet execution by running the Java Preferences app in /Applications/Utilities. However, if, after an indeterminate period of time, you haven't run any Java applets, your Mac will automatically disable auto-execution again.

Apple recommends the update to all Mac users who have Java installed. The update is available via Software Update. Go to macworld.com/7770 to download the update.

Antivirus software companies have also released free Flashback-fighting tools. Kaspersky's tool is available at flashbackcheck.com. Symantec's app is at macworld.com/7771. F-Secure's tool is at macworld.com/7772. —LEX FRIEDMAN



Flashback Fighter Kaspersky released a free application that can check your Mac to see if it has been infected by Flashback.

BBEdit Text Editor Turns 20

Venerable Mac application is as relevant as ever

BY JASON SNELL

April marked the 20th anniversary of the esteemed Mac text-editing app BBEdit. There are other apps not published by a huge company that have lasted as long, but I'm not sure any app has remained as relevant as BBEdit. As someone who has written thousands (if not millions) of words in Bare Bones Software's flagship product, let me take this opportunity to praise and reminisce.

BBEdit began with a Usenet post by Rich Siegel, who 20 years later is still the lead developer. The post on April 12, 1992, heralded the arrival of a free text editor.

I realize that many *Macworld* readers weren't around 20 years ago, so as someone who was a college student back then and had only recently discovered

the Mac, let me translate. BBEdit used special features of System 7, which for my money marked the first major transition of the Mac operating system into the modern era. A Mac user today might find System 7 odd, but it would be far more familiar than its predecessor, System 6.0.8.

Impressive Debut

While it's impressive that the first version of BBEdit used only 256K of memory, more relevant is that BBEdit had no 32K upper bound. Back then, most Mac text editors used a systemwide text-editing resource that couldn't handle more than 32K of text. BBEdit's ability to edit more than 32K of text was a big deal.

But what strikes me most is that the first public edition of BBEdit offered two of its most important features—multifile search and replace, and support for *grep* pattern-matching. If you don't know what *grep* is, suffice it to say that it's the single biggest productivity booster I have experienced in my entire computer-using life. In 1997 I bought a book just to learn how to use *grep*-style regular expressions, and it paid dividends.

BBEdit was initially conceived of as a tool for programmers, but it's far more flexible than that. I've used BBEdit to build websites, edit PHP and JavaScript code, and write hundreds of articles.

I was introduced to BBEdit somewhere around 1995, while working at



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And you can take it with you: get iBank Mobile and iBank Investor apps. Both for iOS.



MacUser magazine. I can't remember exactly when I stopped editing web-pages using the text editor inside the Eudora email program, but I'm pretty sure the person who got me into BBEdit was my colleague Stephan Somogyi. I remember being impressed that Stephan was listed in BBEdit's About box, credited as one of two "princes of insufficient light." (Quirky About boxes—another classic Mac feature that lives on in BBEdit to this day.)

Still Kicking

All of this would be an insane nostalgia trip were it not for one amazing fact: BBEdit is still around. And not just as a relic of the old days, but as a modern, relevant text editor. Almost none of the other apps I used in 1997 are on my hard

drive today. (I count two others: Default Folder and DragThing.) BBEdit has grown and adapted over time, going from free to commercial, spawning a free Lite version that eventually became the free text editor TextWrangler (read more about TextWrangler on page 22).

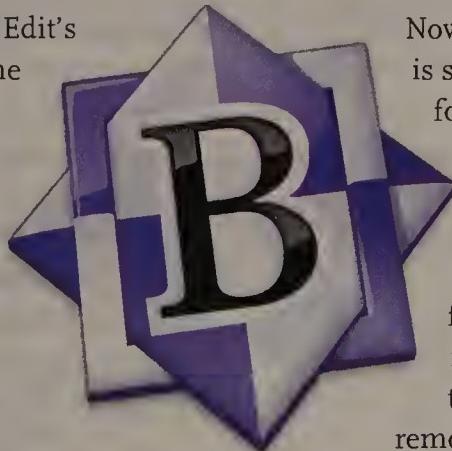
Now at version 10.1.1, BBEdit is sold in the Mac App Store for \$50—much cheaper than it was during the early commercial era.

With every version, BBEdit gains new features that keep it relevant. At the same time, older stuff is removed regularly, keeping the app rich and complex but not overburdened with old junk. This is not to say that BBEdit doesn't have competitors. In the old days the competition was Unix-based text editors like emacs; these days it's TextMate and

maybe Coda for Web-related stuff, and a host of new OS X writing tools such as Scrivener and iA Writer.

All of these tools have their advantages—in fact, I use Scrivener for longer, more complicated stories. But while people can argue the merits of BBEdit versus these other apps, the point is that after 20 years, those arguments can still happen. As its sales in the Mac App Store can attest, BBEdit isn't just fulfilling the needs of veterans like me—it's actively gaining new users and competing with the young upstarts.

Here's a toast to the venerable gentleman text editor. I'd raise a glass, but since BBEdit's still a year shy of legal drinking age in most states, I'll say only this: I wrote this article in BBEdit, and I'll be writing the next one in BBEdit, too. Nostalgia is great, but this app doesn't belong in a museum—it belongs in my Dock. That's the biggest endorsement I can give.



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Apple: The Big Bucks Keep Rolling In

BY PHILIP MICHAELS



For the quarter that ended March 31, 2012, Apple reported an \$11.6 billion net profit, an increase of 94 percent over the same quarter in 2011. That profit was based on revenue of \$39.2 billion, which was a 59 percent increase compared to the 2011 second quarter.

Apple's profit translates to earnings of \$12.30 per share, up from \$6.40 a share last year; analysts were expecting to see earnings of \$10.06 a share for the quarter.

Apple sold 11.8 million iPads during the quarter, an increase of 151 percent from the year-ago period.

The company sold 35.1 million phones between January and March, an 88 percent jump from year-ago iPhone sales and a record for the March quarter.

The iPad and iPhone combined produced \$29.2 billion in revenue—that's three-quarters of the revenue Apple brought in during the second quarter.

Mac sales also set a second-quarter record. The company sold 4 million Macs, an increase of 7 percent from the year-ago quarter. The 2.8 million portable Macs sold during the quarter represent 70 percent of Mac sales.

Apple sold 7.7 million iPods, a drop of 15 percent from the second quarter of 2011. iPod sales actually came in ahead of Apple's expectations for the quarter, with Apple choosing to focus on the fact that the higher-priced iPod touch represents more than half of the iPods sold during the quarter. Even with its declining sales, the iPod remains the market leader among MP3 players.

The iTunes Store also saw record revenue of \$1.9 billion during the quarter. That's an increase of 35 percent from last year's tally, with music, video, and app sales driving the growth.

100 Thunderbolt Devices in 2012, Says Intel

BY AGAM SHAH

About 100 peripherals based on the Thunderbolt connector technology will become available by the end of the year, if Intel meets its target, said Kirk Skaugen, corporate vice president and general manager of Intel's PC Client Group. That would be a big jump from the slim selection of such devices available today.

Thunderbolt, which was introduced more than a year ago, is a high-speed connector technology that moves data between computers and peripherals. Thunderbolt was

codeveloped by Apple and Intel, and has data-transfer speeds of up to 10 gbps, which is faster than USB 3.0.

Skaugen's remarks came during an announcement of the new third-generation Intel Core processors code-named Ivy Bridge. There will be a higher level of Thunderbolt integration in computers with the new Core processors, Skaugen said.

Intel hopes to ship optical Thunderbolt cables later this year, and is also adding internal support for the faster PCI-Express 3.0 bus. The current iteration of Thunderbolt uses copper cables and supports the older PCI-Express 2.0 bus.



Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEED-MARK 7 ^a	FIND CODE ^b
DESKTOP						
iMac	Intel Core i5/2.5GHz (quad-core)	4.5	\$1199	21.5 inches	211	7197
	Intel Core i5/2.7GHz (quad-core)	4.5	\$1499	21.5 inches	229	7198
	Intel Core i5/2.7GHz (quad-core)	4.5	\$1699	27 inches	225	7199
	Intel Core i5/3.1GHz (quad-core)	4.5	\$1999	27 inches	241	7200
Mac Mini	Intel Core i5/2.3GHz	4.5	\$599	not included	132	7429
	Intel Core i5/2.5GHz	4.5	\$799	not included	161	7430
Mac Pro	Intel Xeon/2.8GHz (quad-core)	4.5	\$2499	not included	219	6458
	Intel Xeon/2.4GHz (eight-core)	4.5	\$3499	not included	235	6459
	Intel Xeon/2.66GHz (12-core)	4.5	\$4999	not included	n/a ^c	6460
PORTABLE						
MacBook Air	Intel Core i5/1.6GHz, 64GB	4.5	\$999	11 inches	146	7425
	Intel Core i5/1.6GHz, 128GB	4.5	\$1199	11 inches	152	7426
	Intel Core i5/1.7GHz, 128GB	4.5	\$1299	13 inches	166	7427
	Intel Core i5/1.7GHz, 256GB	4.5	\$1599	13 inches	162	7428
MacBook Pro	Intel Core i5/2.4GHz (dual-core)	4.5	\$1199	13 inches	146	7532
	Intel Core i7/2.8GHz (dual-core)	4.5	\$1499	13 inches	164	7533
	Intel Core i7/2.2GHz (quad-core)	4.5	\$1799	15 inches	190	7534
	Intel Core i7/2.4GHz (quad-core)	4.5	\$2199	15 inches	219	7535
	Intel Core i7/2.4GHz (quad-core)	4.5	\$2499	17 inches	216	7536

n/a = not available. ^a Speedmark 7 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.7 (Lion). For more information on Speedmark testing, go to macworld.com/7487. ^b In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ^c This system has not yet been assigned a Speedmark score.

HAIKU

If you love your ceiling fan, ignore this ad.

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Haiku looks different because it is different, with revolutionary technology hiding inside the seamless fit and finish at its center. The sleek look conceals Sensorless Drive Technology™ that delivers an 80% improvement in efficiency over conventional ceiling fan motors. Confirmed by ENERGY STAR® as the world's most efficient ceiling fan, Haiku also won the prestigious international red dot award, a prominent seal indicating quality design.

Don't call them blades

Haiku's patent-pending Thin Sheet™ airfoils span 60 inches and feature an aerodynamic profile, resulting in smooth, silent airflow (in fact, it's also the quietest fan in the world—at all speeds). Haiku airfoils are made of Moso bamboo, a sustainable resource with the tensile strength of steel that renews itself every five years.

After multiple quality inspections and a seven-pass, solvent-free finish to highlight the natural grain, five thin

sheets of bamboo are bonded in a hot forming press, then cut and sanded by hand to create airfoils that meet the strictest quality standards. (Actually, there are only two companies in the world that could create our unique bamboo airfoils—one in Germany, the other in Michigan. We chose the U.S.)

Each airfoil is then individually fitted as technicians confirm the perfect balance of every fan.

Stealth operation

Haiku's sophisticated control features include Sleep, Timer, Reverse, and variable speed settings, including the exclusive Whoosh™ mode to simulate natural airflow. This is the one fan you'll dare turn all the way to high—its unique core and 13-step hand-balancing process mean it will never rattle or wobble. Ever.

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MAC GEMS

Discover Great, Low-Cost
Mac Products **By Dan Frakes**

OFFLINE ARTICLE READER

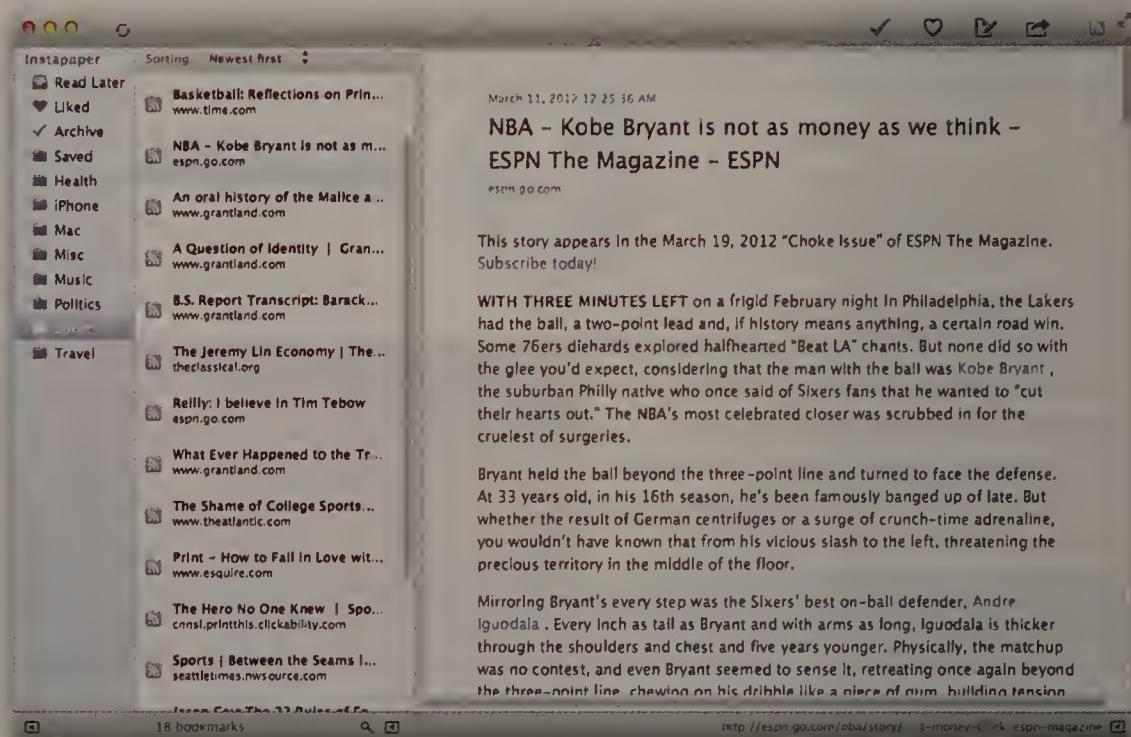
Read Later 2.0.3

 FREE; MICHAEL SCHNEIDER; MISCHNEIDER.NET

Instapaper and Pocket (formerly Read It Later) are useful Web services that let you save Web articles for later reading. Read Later is a Mac client for both services that offers a better reading experience than their websites do.

Read Later downloads the full text of the articles you've saved, as well as any folders (for Instapaper) or tags (for Pocket). Click a folder or tag, or your main read-later queue, and you see a list of its saved articles. Click an article to display it—sans ads and messy layout—in the pane to the right. A full-screen mode lets you read without distractions, and you can even toggle the visibility of the folder and article lists, leaving nothing but the article.

You can sort the selected list, customize the information displayed in the list, and change the appearance of articles to suit your tastes. The program also offers themes that determine the article background, text color, and layout for reading. You can search saved-article titles, URLs, and folders (for Instapaper) or tags (for Pocket), but not the body of



articles. You can move an article to a folder (for Instapaper) or assign it a tag (for Pocket) by simply dragging it from the article list to the desired folder or tag, respectively, on the left. Any article-management tasks you perform while you're offline sync back to the server the

next time you have an Internet connection.

Read Later also has a slew of features for working with article URLs and sharing them via email and social networking services. It offers more options than the Instapaper and Pocket websites, a nicer reading environment, and offline reading.

WI-FI TOGGLE

Airtoggle 1.0

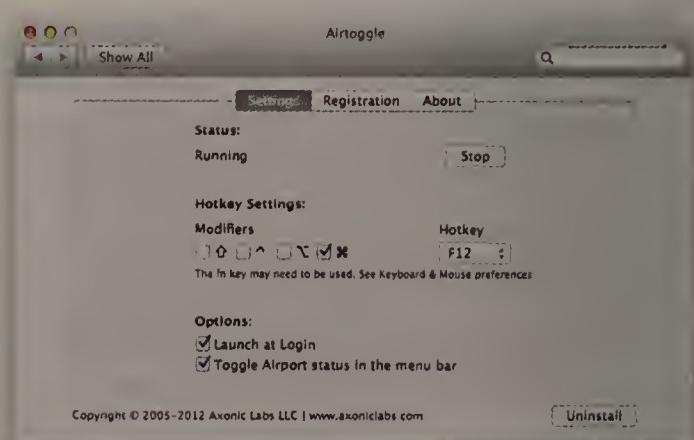
 \$3; AXONIC LABS; WWW.AXONICLABS.COM

By installing the Airtoggle System Preferences pane, you can choose a keyboard shortcut for toggling Wi-Fi on and off: any function key, along with any combination of ⌘, Shift, Control, and Option. Whenever you use that shortcut, a semitranslucent Wi-Fi graphic appears on the screen to confirm the action.

For many people—especially those with crowded menu bars—the best part of Airtoggle is that it lets you disable and

enable Wi-Fi without having to keep Apple's Wi-Fi menu enabled. Alternatively, there's an option to hide the Wi-Fi menu automatically whenever you disable Wi-Fi, and display it whenever Wi-Fi is on. In other words, you see the Wi-Fi menu only when you're using Wi-Fi.

If you frequently toggle Wi-Fi on and off—say, to prolong battery life, or for extra



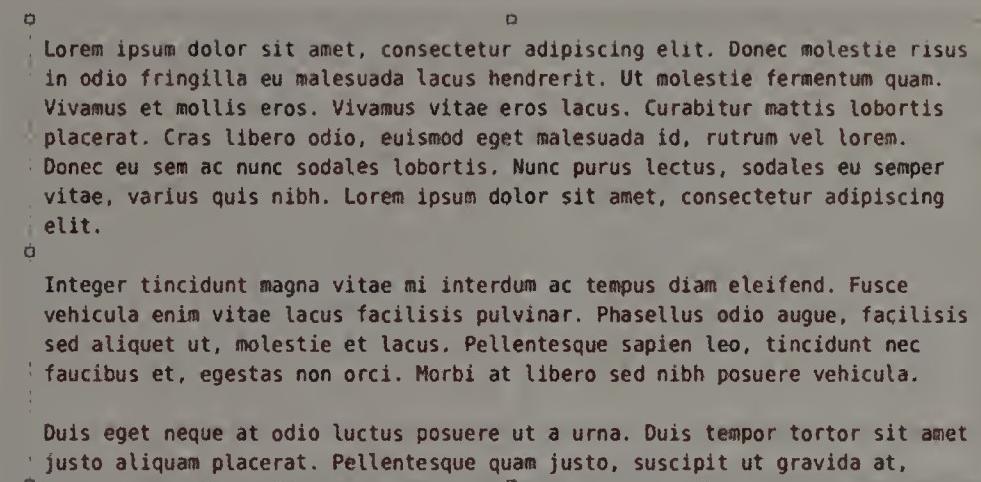
security while you're out and about—Airtoggle is a handy utility that makes it easier while freeing up menu-bar space.

OmmWriter Dana II 1.01

 \$5; HERRAIZ SOTO & CO; WWW.OMMWRITER.COM

Among the many distraction-free OS X writing apps, OmmWriter Dana goes the furthest in distancing the writer from his or her computer. Not only is full-screen mode the program's *only* mode, but a number of the program's features are specifically designed to create an all-encompassing environment. One of these features is a set of seven full-screen backdrops. Another is the inclusion of seven different soundtracks, ranging from ringing bells to ambient piano music, designed to help you focus. (These are interesting, but they can get old quickly.) There are also seven different sounds for audible feedback of keystrokes.

As with many writing apps of this type, OmmWriter is text-only. You can export to PDF or RTF, but you can't apply WYSIWYG styles—just Markdown or HTML code for formatting. The program's display options



Three text documents are displayed in the main window. The first document contains placeholder text: "Lorem ipsum dolor sit amet, consectetur adipiscing elit. Donec molestie risus in odio fringilla eu malesuada lacus hendrerit. Ut molestie fermentum quam. Vivamus et mollis eros. Vivamus vitae eros lacus. Curabitur mattis lobortis placerat. Cras libero odio, euismod eget malesuada id, rutrum vel lorem. Donec eu sem ac nunc sodales lobortis. Nunc purus lectus, sodales eu semper vitae, varius quis nibh. Lorem ipsum dolor sit amet, consectetur adipiscing elit." The second document contains: "Integer tincidunt magna vitae mi interdum ac tempus diam eleifend. Fusce vehicula enim vitae lacus facilisis pulvinar. Phasellus odio augue, facilisis sed aliquet ut, molestie et lacus. Pellentesque sapien leo, tincidunt nec faucibus et, egestas non orci. Morbi at libero sed nibh posuere vehicula." The third document contains: "Duis eget neque at odio luctus posuere ut a urna. Duis tempor tortor sit amet justo aliquam placerat. Pellentesque quam justo, suscipit ut gravida at,"

are similarly limited; you get four different fonts in four sizes each. OmmWriter also takes a minimalist approach to accessing preferences: When you move the pointer, you see a group of circular icons to the right. Move the pointer over each icon

to view its interface options.

I'd like to see a few more options, but OmmWriter Dana is a solid writing tool, and if its interface decisions work for you, it accomplishes its goal of helping you focus on your writing.—KIRK MCLEHARN

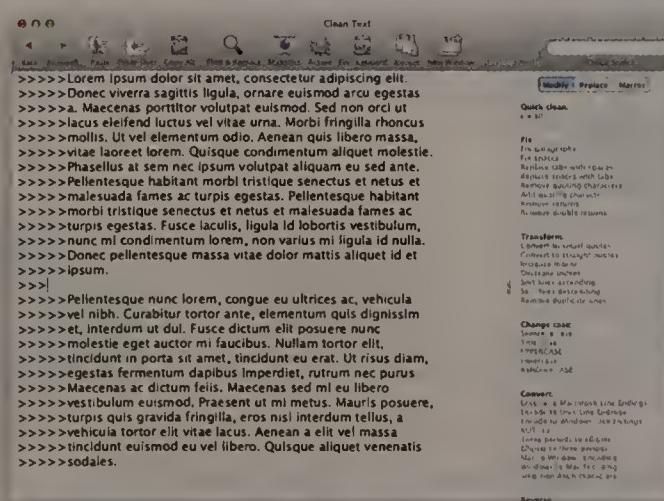
TEXT CLEANER

Clean Text 6.8.1

 \$10; API MAC; WWW.API-MAC.COM

Whether it's the body of an email message that's been forwarded too many times, or content copied from a PDF, sometimes you find yourself with messy content—for example, text that has lots of email-quote characters (>) or stray line breaks—that you need to make presentable. Paste your text into the Clean Text window, and you can click any of the app's 35 text-modification actions, which include removing email-quote characters, converting tabs to spaces and vice versa, converting straight quotes and apostrophes to their "smart" equivalents, sorting lines, changing case, and more. A Quick Clean option performs the most common cleanup tasks with one click.

A Replace feature performs up to three find-and-replace tasks in one sweep. A Macro option allows you to create one-click actions that combine multiple find-and-replace or text-modification tasks. And a Statistics button displays basic stats for your text: character, word, space, and line counts; estimated reading time; and more.



You can minimize Clean Text to a tiny palette that floats above all other windows. In this palette, click Fix Clipboard Text, and Clean Text applies its Quick Clean tool to the contents of OS X's Clipboard; you can then paste the freshly cleaned text into any app. A Strip Clipboard Style button strips all formatting from the Clipboard's contents. Clean Text also supports OS X's Services feature, making its features available from within other programs.

Even if text cleaning is a task you perform infrequently, Clean Text is a useful tool to keep on hand. And the program's iconized mode is great for one-click cleaning.

Check out the **Mac Gems** blog at macworld.com/macgems.

OS X APPEARANCE TWEAKER

Lion Designer 2.9.9

 PAYMENT REQUESTED; MORITZ WETTE; WWW.MORITZWETTE.COM

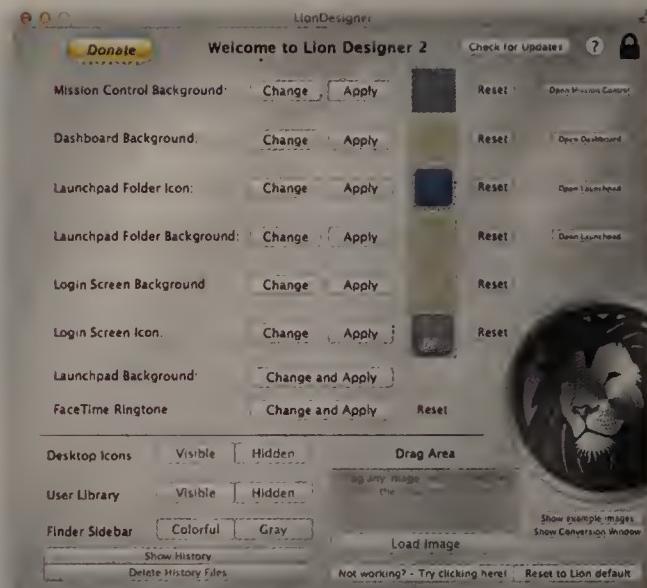
Lion Designer lets you change the look of particular Lion features with just a few clicks. Specifically, you can change the backgrounds for Mission Control, Dashboard, Launchpad, Launchpad folders, and the login screen. In addition, you can change the look of Launchpad folder icons and the login-screen icon. Just click the Change button next to a setting, navigate to your desired image, and then click Apply; because you're making changes to system files, you need to enter your administrator username and password.

The Show History button shows a folder with any images you've previously used, and the app's Show Conversion Window brings up an image-conversion tool that lets you ensure that smaller

images will display at full-screen size rather than tiled.

Some changes take effect right away; others require you to log out and then back in to see the changes. Handy buttons next to the Mission Control, Dashboard, and Launchpad items let you switch to each feature to view those changes immediately.

Lion Designer also lets you make a few other changes to Lion's behavior: You can change the visibility of the user-level Library folder, hide desktop icons, change the ringtone sound for FaceTime calls, and even change the icons in Finder-window sidebars from Lion-style grayscale to Snow Leopard-style colorful.



However, this last tweak requires that Lion Designer download and install a more substantial system hack.

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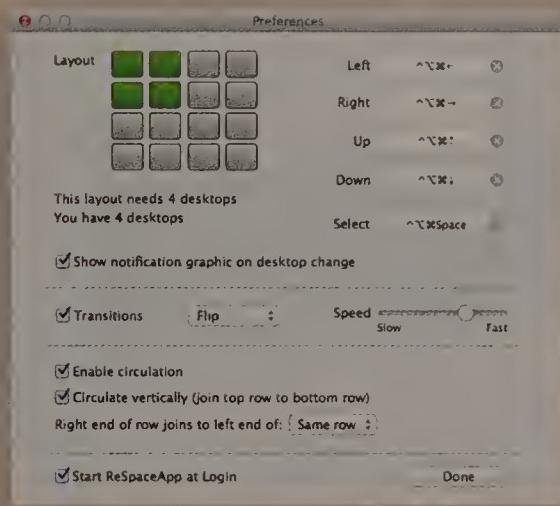
\$12 (FREE DURING BETA PERIOD); BINARYAGE; TOTALSPACES.BINARYAGE.COM

Lion's Mission Control, which offers multiple workspaces, is missing popular features found in Spaces, the similar feature in Snow Leopard (OS X 10.6). TotalSpaces (formerly ReSpaceApp) aims to bring back much of Spaces' functionality while using Mission Control for underlying functionality.

For example, Total Spaces' preferences window (shown here) lets you configure your virtual workspace grid, from one-by-two or two-by-one up to four-by-four. You can navigate between those workspaces using a systemwide menu, configurable keyboard shortcuts, or a shortcut that brings up a large, graphical representation of your workspace grid. As with Mission Control, you can move a window between workspaces by dragging it against the left or right edge of your screen. (To move a window between vertically arranged workspaces, you drag it against the left or right edge of your screen and keep holding it there—TotalSpaces cycles past the last workspace on the current row to get to the first work-

space on the next row, and so on.)

TotalSpaces is still in the beta stage, so it's got some quirks to work out. But I'm looking forward to future updates—I'm still a fan of Spaces, and I've been disappointed in Mission Control's approach to multiple workspaces. With some improvements, TotalSpaces could deliver the best of both Spaces and Mission Control.



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HOT STUFF

What We're Raving about This Month

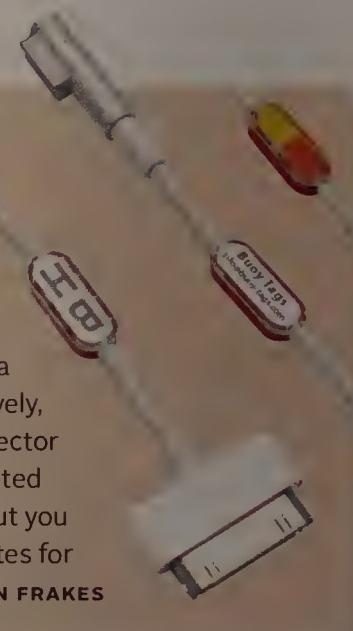


OWC Mercury Accelsior PCIe SSD Card

Think of a solid-state drive (SSD), and you might picture a boxy device like a hard drive, but with flash memory instead of hard-drive platters. OWC's Mercury Accelsior is a different animal. It's an SSD, but in the form of a bootable PCIe card designed to give your Mac Pro a speed boost. By fitting into a Mac Pro's PCIe slot, the Mercury Accelsior utilizes the fastest interface available to produce maximum speeds. The company boasts that the Mercury Accelsior offers performance that is five times faster than an internal SATA-connected hard drive—up to 780 MBps read and 763 MBps write performance. If you use the Mercury Accelsior as your Mac Pro's boot drive, you'll see nearly instant startup and app launching. And if you install the OS and apps on the SSD, you'll free up space on the hard drive for your files. Choose from four storage capacities: 120GB (\$360), 240GB (\$530), 480GB (\$950), and 960GB (\$2080) (eshop.macsales.com).—LEAH YAMSHON

Buoy Tags

If you tend to use your Apple gear in places where other Apple users congregate, you know the hassle of losing track of which gear belongs to which person. Buoy Tags can help. These tiny plastic clip-on tags attach to your cables to make it clear they belong to you. For \$12, you get a three-pack that includes tags specifically sized for, respectively, Apple's laptop power adapter cables, its USB-to-dock-connector cables, and its earbud cables. Inside the package are preprinted inserts with various colors, letters, and common symbols, but you can also download Photoshop, Illustrator, and Word templates for making your own personalized inserts (buoytags.com).—DAN FRAKES



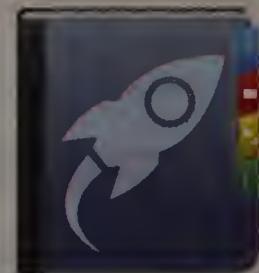
TextWrangler 4.0

TextWrangler was already a great text editing program for Mac OS X, but creator Bare Bones Software just gave the tool a major upgrade. Available for free in the Mac App Store, TextWrangler 4.0 features a new iTunes-style editing layout and a Recent Documents pane. There's also support for full-screen mode and any-edge window resizing in Lion, and a boosted Preferences window with new options for text customization. TextWrangler now automatically restores unsaved text from your last session, so your content will be waiting for you the next time you launch the app. Requires an Intel Mac and OS X 10.6 or later (barebones.com).—LEAH YAMSHON



RocketDocs 1.0

Tricky Duck's RocketDocs app lets users access Google Docs. This utility functions as a true app—you can launch your Google Docs straight from the Finder or from your Dock without having to log in through a Web browser (though you do need an Internet connection). RocketDocs is fully integrated with Google Docs—you can view, preview, edit, sort, and share as usual, and you can still collaborate in real time with other Google Docs users. Extra features include easy navigation tabs and hotkeys for switching between documents. RocketDocs requires Mac OS X 10.6 or later, and is available for \$5 in the Mac App Store (rocketdocsapp.com).—LEAH YAMSHON



MACFRAME

The glass cover of your iMac's glossy screen causes extra glare and sometimes even unwanted reflections. Macframe offers a do-it-yourself solution: Remove the glass and replace it with a Macframe, a thin, magnetic black frame made from steel that fits around your iMac's screen. At a glance, an iMac with a Macframe installed looks nearly identical to a factory-shipped iMac with the original glass screen in place, but with significantly reduced glare. The frame ships with two differently sized suction cups for easy installation and removal, and it fits all iMacs with an edge-to-edge glass screen (late 2009 to present). Available for \$39 for 21.5-inch iMacs and \$49 for 27-inch iMacs (macframes.com).—LEAH YAMSHON



REDEFINING STORAGE PERFORMANCE FOR THE **4TH** TIME.

Ver-tex (vur-teks): noun, singular.

- 1.) The highest point
- 2.) Anatomy: the crown of the head
- 3.) Astronomy: a point in the sky towards which a star stream appears to move
- 4.) Computer Technology:
 - a. the pinnacle of storage performance: *Vertex offers a superior computing experience.*
 - b. continually sets the bar for SSDs each year
 - c. the culmination of SSD expertise, obsession, and evolution
 - d. does not follow the lead of another to obtain greatness; trailblazer



Industry's highest IO performance with up to 120,000 IOPS



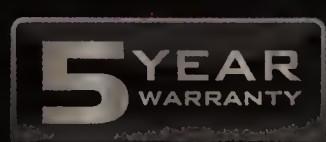
Advanced suite of flash management to increase durability and reliability.



Better multitasking and all round performance with no-compression related limitations



Fast boot times and ultra-low latency



Industry-leading 5 year warranty

Four years in the making, the OCZ Vertex 4 Solid State Drive Series redefines the modern day computing experience with enhanced performance and endurance. Ingeniously engineered to deliver industry-leading file transfer rates and superior system responsiveness, the fourth generation Vertex Series was designed to unleash ultimate productivity, gaming, and multimedia applications like no other storage solution.

OCZ
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the SSD experts!

AVAILABLE AT



Configuring a Kid-Friendly iPad

Your old iPad can be a great thing to pass on to your child—if you set it up properly

BY CHRISTOPHER BREEN

HOW-TO

With three generations of iPads now out in the wild, it's becoming more usual to find multiple iPads in a home. And some of them are being passed along to kids. What can you do to make such an iPad useful (and safe) for your child? These six steps are a good place to start.

Step 1: Remove Your Stuff

When giving an iPad to another person—even your own kid—it's imperative that you remove all of your data from it. Hook up your iPad to the computer you normally sync it with, and then back it up (because you may want to restore that data to a new tablet). Then select that iPad in iTunes' Source list; in the Summary tab, click on Restore. iTunes downloads and installs the latest iOS version. Choose to configure the iPad as new, and you wind up with a device that's essentially just as it was when you first pulled it from the box.

Step 2: Plan a Syncing Strategy

If you have a young child, you should take responsibility for obtaining apps on your child's behalf and syncing the

iOS offers broad options to switch off Safari, YouTube, iTunes, and Ping. You can allow app and media downloads based on their rating.

iPad through your own iTunes account. That way, not only do you know exactly what's on the iPad, but you can also deal with obtaining, organizing, and configuring apps.

Older children will want an iTunes account of their own. If you grant it to them, they'll appreciate having the



World of Wonder Apps like Vectorpark.com's Windosill help make the iPad a great device for kids—if you take the time to set up the tablet carefully.

independence to download the apps and media they want, rather than simply the ones you've decided are "good for them."

account and they don't have access to your apps, some of which may be inappropriate for children.

Step 3: Configure Restrictions

iOS offers very broad options to switch off Safari, YouTube, iTunes, and Ping, and to disable the ability to install and delete apps. Additionally, you can allow downloading of apps and media based on their rating—restricting movies to G and PG ratings and apps to age nine and over, for instance—and deny in-app purchases, multiplayer games, and adding friends within Game Center.

To enable restrictions, launch Settings on the iPad, tap General, and then tap

If you go this route, you'll also want to create a separate account for them on your Mac (which I cover in "How to Share One Mac with Your Family" at macworld.com/a/1163342), as well as obtain an Apple ID for their use (which I address in the Mac 911 blog at macworld.com/a/1159068). That way, their apps are tied to their

Restrictions. Select Enable Restrictions at the top of the screen. You'll be prompted to enter and confirm a four-digit passcode. If anyone tries to change your settings, they'll need to enter that passcode first.

iOS 5 lets you impose restrictions on location and accounts. Tap Location in the Restrictions pane and you can disable location information completely by toggling the Location Services switch to Off. Or you can choose to turn off location for the specific apps listed below that switch. Parents may not want an app to tell the world where their child is. A good rule of thumb is to switch on location for apps that tell the user about the world around them—a weather app, Yelp, and Maps, for example. But you may want to turn off location for an app that broadcasts the iPad's position—Find My Friends or a Twitter or Facebook client, for instance.

Step 4: Obtain and Configure Email

If your child doesn't have an email address, you can obtain a free one from a source such as Gmail or Yahoo. Both services ask that the owner of the email address be at least 13 years old, though they have no way of confirming the owner's age.

Unwanted email can be a problem with iOS devices because, unlike with OS X's parental controls, you have no way of limiting the addresses your child can receive email from or send email to on the device. Gmail and Yahoo allow

you to create limited whitelists of senders the recipient should always receive messages from, but offers no way to block senders who aren't on the whitelist. The same applies to iCloud email accounts. You can set up basic filters on the iCloud website, but they can't prevent the sending of mail to your child's iCloud email account. For this reason, you should be completely sure that your child can handle the responsibility that comes with an email account (and is willing to tell you if he or she is receiving inappropriate messages).

Step 5: Choose Apps for the iPad

If you'd like complete control over which apps your kid can install on the iPad, switch off restrictions if they're enabled, sit down with your child, and choose some appropriate apps. When you're done, switch restrictions on and toggle the Installing Apps option to Off. This prevents your kid from installing apps.

Keep an eye on the Netflix app. It's a terrific resource for streaming movies to your child's iPad, but its restrictions are tricky to manage. Although you can create profiles for different members of your family, Netflix applies parental controls globally. If you don't switch on parental controls, your child has access on the iPad to any movies or TV shows available via Netflix's Watch Instantly service or within your streaming queue. And, of course, once you switch on parental controls, they keep the adults in the family from



Know Your Limits iOS 5 allows you to impose restrictions on apps, locations, and accounts.

watching more mature content until you modify those settings. The other sticking point is that you can only modify parental controls on Netflix's website.

Step 6: The Talk

Whenever you consider giving a child access to technology, you must also prepare for The Talk. Your talk should address the importance of setting limits on iPad use, asserting your right as a parent to check up on your kid, and warning of the dangers of oversharing information on the Internet. The approach should be age appropriate. You don't want to terrify younger children with visions of the Internet bogeyman, nor should you overprotect a teenager old enough to go to an R-rated movie. Your advice should be similar to that for a traveler in a new city—get the lay of the land, learn about both the dangers and opportunities, and have a good time.

Watch Instantly Just for Kids Browse DVDs Your Queue ★ Suggestions for You

Welcome: Christopher Breen

Change Parental Control Setting

Parental controls allow you to block mature titles from being shown onscreen or added to your Instant Queue.

- All Movies
- R and below
- PG-13 / TV-14 and below
- Unrated Family and below
- PG and below
- G and below

Continue

Movie Ratings Netflix offers parental controls, but they apply to everyone's content.

Three Ways to Save Space on Your iOS Device

Running out of room? Here's how to free up space.

BY LEX FRIEDMAN

To take full advantage of the new iPad's 2048-by-1536-pixel display, apps need new versions of their graphics. That means bigger file sizes, even on older iOS devices. Soon, your 16GB iPhone or iPad may start complaining that it's out of storage space.

Here are some ways to free up room on your app- and data-packed device.

Turn to iTunes Match

If you store a lot of music on your iOS device, and you can spare \$25 per year, consider signing up for iTunes Match. With that service, Apple stores your music in iCloud; your entire music library appears on your iOS device without taking up storage space there. Once you've signed up for the service in iTunes on your Mac, you can remove music from your iOS device as needed to free up space.

Drop a Few Apps

When deleting apps, focus on the ones you use the least, in particular those that take up the most space. Go to Settings ▶ General ▶ Usage to see apps listed by size. GarageBand and iMovie each gobble up more than a gigabyte of storage space; if you never use them, now might be the time to bid them adieu. (Remember that you can always reinstall them from the App Store later.) You can delete apps from within the Usage screen: Tap the name of the app, and then tap the Delete App button.

Video can eat up space as well. While you can't remove the Video app, you can delete individual videos you've stored in it. If you synced movies eons ago and no longer need them, remove those, too.

Photo Management

Photos and videos shot with your iOS device can take up just as much space as



Space Saver The Usage screen on your iOS device shows how much space each app takes up. Delete larger apps you rarely use.

apps, particularly when recorded with the much-improved cameras on newer iPhones. So back up those photos and videos, and then get them off your iOS device. You can import your photos via Photo Stream, or connect your iOS device directly to your Mac and import the files that way. iPhoto offers to delete the photos and videos it imports. Another way to make quick work of deleting photos from your device is with Image Capture.

Tweaking settings can save you some space, too: Some third-party camera apps, like Instagram and Camera+, offer options to save your photos—only within the app, or within your Camera Roll as well. Instagram and others let you specify whether you want to save an original photo, the edited version, both, or neither.

AT&T to Unlock Out-of-Contract iPhones

BY SERENITY CALDWELL

Good news for anyone with a GSM-based iPhone: AT&T customers who have fulfilled their two-year contract can now unlock their iPhone for use on any GSM network.



AT&T made the change in April, bringing its iPhone unlocking policy closer to that for other devices: In the past, subscribers could unlock a non-Apple phone after their contract had expired, but the company refused to unlock the iPhone except in special circumstances.

Now, customers who wish to use AT&T's network can buy an iPhone at a subsidized price and have it unlocked after their contract term is up, rather than having to purchase an unlocked phone at full price directly from Apple. AT&T says the only requirements are that a customer's account must be in good standing and that the device can't be linked to a current and active contract.

Unfortunately, even though you can unlock your phone out of contract, AT&T isn't following the practice of Verizon and Sprint in allowing current subscribers to roam with a different SIM overseas; you must pay AT&T's roaming rates or bring an older unlocked phone to use a local SIM. AT&T won't unlock the GSM micro-SIM for international use during a contract term, as doing so would also enable you to use any GSM network at home. That's not a concern for Verizon and Sprint, as they use the CDMA standard in the United States. Still, an out-of-contract AT&T iPhone 3GS or 4 just got cheaper to use overseas or on T-Mobile's network.

Blackmagic design



Consumer cameras are low cost and give you full 1080HD video! Imagine your event in full HD!

See all your cameras and program video output using a single TV with the built in multi view.

Includes control software for Mac and PC plus Photoshop plug ins for direct graphic downloads.



Rack mount design lets you install into road cases for portability.

HDMI inputs let you plug in HD video cameras or computers for slide shows!

You can even plug in broadcast cameras using the SD/HD-SDI inputs.

USB 2.0 connection lets you record direct to H.264 files for iPhone, iPad and web. Includes Media Express.

SDI and HDMI program outputs for sending your live program feed to your audience!

Ethernet lets you plug direct to your computer for control and uploading graphics.

If you've ever wanted to get into the television industry, then here's how!

Enter the exciting world of live television production with the new ATEM Television Studio! Simply plug in up to 8 cameras with HDMI or SDI connections and ATEM will re-sync the video and allow transitions, effects, graphics, animations, chroma keying, all completely live, and at the push of a button! Unlike editing software, live production is the most exciting, lowest cost, and fastest way to generate professional programs. You can even broadcast live to your audience and over the internet!



Live Creative Power

ATEM Television Studio operates as a professional M/E style switcher, so you can take your skills into any broadcast TV station! You get the most creative solution for live switching, with cut, mix, wipe, dip and more!

You can even load graphics directly from Adobe Photoshop into the 2 built in media players for live keying!



Incredible Features

Only ATEM includes upstream chroma key for green and blue screen shooting. You also get pattern, shaped and linear keying, 2 downstream keyers, 2 built in media players and more! The built in multi view allows all cameras, preview and program to be viewed on a single SDI or HDMI monitor or television, so ATEM is perfect for portable location use! Now you can cover any live event, anywhere!



More Connections and H.264

ATEM Television Studio includes loads of SDI and HDMI connections for professional SDI cameras or HDMI consumer cameras! All inputs feature re-sync so you can plug in anything! You also get SDI and HDMI outputs, plus built in H.264 encoding for generating files for the internet, iPhone, iPad and more! Imagine live production direct to H.264 QuickTime files for instant viewing!



Built to Perform

ATEM uses a familiar M/E style of operation so you get an instantly familiar workflow that's fast and easy to use. ATEM includes a software based control panel for Mac and Windows! If you need a hardware control panel then simply add the ATEM 1 M/E Broadcast Panel for a true broadcast grade solution. Thousands of ATEM switchers are used today for live broadcast events such as sports, music festivals, drama, reality TV and much more!



ATEM Television Studio

\$995

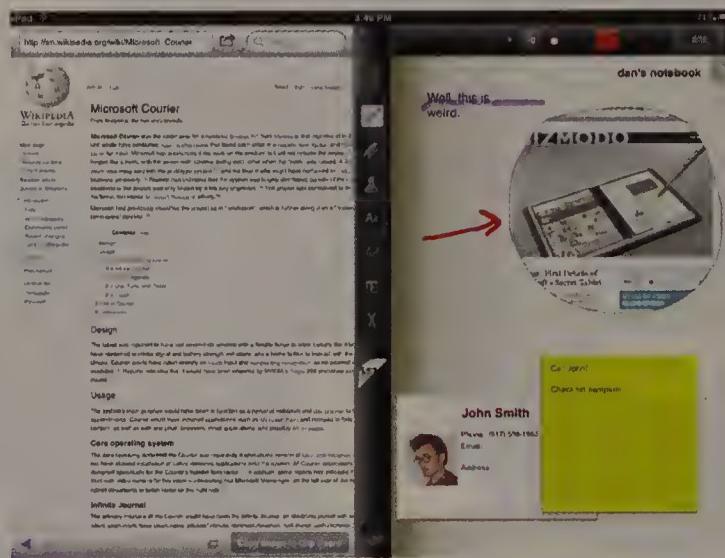
Taposé Brings Microsoft's Courier Concept to Life

BY DAN MOREN

Microsoft may have ditched its Courier concept tablet device in 2010, but that didn't stop developer Zanther from creating Taposé (macworld.com/7767), a \$3 iPad app that draws heavily on Courier for its inspiration.

Taposé lets you create virtual notebooks in which you can enter text; scribble freehand drawings; and drop images, video, recorded audio, clips from the Web or iOS's Maps, and even virtual business cards of your contacts' information. You can also highlight text, create lists, and make sticky notes.

Microsoft's original concept for Courier was a foldable notebook-like device with two separate displays. Obviously, the iPad only has one screen. So Zanther has adapted Courier's "spine" into a bar that you can drag to create two separate panes. That dual-pane view is actually one of Taposé's most useful aspects, since it allows you to, say, have a webpage open in one part of the screen while writing notes in another.



Let's Split Taposé's best feature is a split-pane view that lets you refer to a webpage while writing notes.

Taposé shows promise, but calling the edges rough is like saying the box-office bust *John Carter* fell a little short of expectations. The app's interface is glitchy and occasionally unpredictable.

It's clear that the Taposé developers pored over the Courier video and tried to remain faithful to the original vision—perhaps too much so. In the end, Taposé isn't served well by the attempt to faithfully re-create something that never really existed—it's like building a scale model of Atlantis.

SPOTLIGHT ON iPAD ACCESSORIES

Korg MicroKey Keyboards

The iPad is good for many things, but can you play "Axel F." on it? You'll be able to, with the help of any model from the microKey series of iPad-compatible keyboards made by musical instrument company Korg (www.korg.com). The number on each model—the \$70 microKey25, the \$80 microKey37, and the \$180 microKey61—refers to the number of keyboard keys. You can connect your iPad to the keyboards with the help of an Apple Camera Connection Kit or a powered USB hub. The keyboards hit the market in May, so you'll be tickling the ivories in no time.—JOEL MATHIS



What's New at the App Store



Adobe Reader Adds Signature, Annotation Features

Adobe has overhauled Adobe Reader with new features that let users of the iPhone and iPad app sign, annotate, and comment on documents (macworld.com/7524). Earlier versions of the free app only allowed users to view, bookmark, and search documents, not modify them. Now you can sign documents using your finger or a stylus; annotation tools allow you to highlight, underline, and strike through text.—JOEL MATHIS



Calendar Integration Comes to Hipmunk Travel App

Your busy schedule can now be front and center when you're looking for flights and hotel rooms with the free Hipmunk Flight & Hotel Search app for iPhone and iPad (macworld.com/7766). Version 2.2 integrates with calendar data stored on your iOS device. Appointments show up in flight search results, so you can see if planned flights conflict with other events. A map showing hotel search results displays the location of your appointments, in case you want to book rooms near your scheduled events.—PHILIP MICHAELS



Chat, Picture Sharing Come to Draw Something

An update to the hugely popular Draw Something (macworld.com/7776) introduces some much-requested features to OMGPOP's drawing game. An in-game chat option lets you post comments on completed drawings, and you can share finished drawings from the \$2 iPhone and iPad game via Facebook or Twitter. Version 1.5.14 also introduces an undo function for wiping out the last line you added in a drawing.—LEX FRIEDMAN

Bowers & Wilkins

Air your tunes

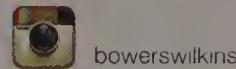


Zeppelin Air Zeppelin is back, and it's better than ever. Apple's AirPlay® technology allows music to be streamed wirelessly from your Mac or PC to Zeppelin Air. You can even bypass the computer entirely, and stream high-quality audio directly from your iPhone®, iPad®, or iPod touch®. All without the need to dock the device. If you have more than one Zeppelin Air, you can use them in a simple to set up multiroom system. **Listen and you'll see.**

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APP GUIDE

Software for Your iPhone,
iPod Touch, and iPad

Angry Birds Space 1.1.0

GAMES When you've dominated every mobile market on earth to the tune of 12 million downloads, there's only one frontier left to conquer. So the Angry Birds franchise moves into space in a physics puzzle game that's much more sophisticated, entertaining, and complex than its predecessors. Whether in its iPhone form or in a separate iPad-optimized version (macworld.com/7756), Angry Birds Space cleverly introduces space physics into the game. You're not just launching a bird at a pig—you're contending with the gravitational pull of nearby asteroids and planets. It makes the game much more open-ended and far more chaotic. This is everything a sequel should be.—CHRIS HOLT

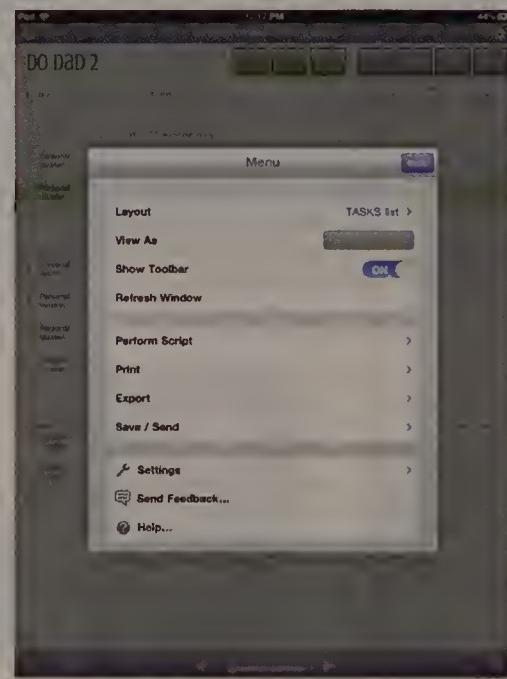
iPhone | ; \$1; Rovio



MyPix Photo Watermarking and Sharing 1.4

PHOTOGRAPHY Photo-snapping iPhone users can easily leave their mark on their images with MyPix, which lets you create customized watermarks right from your phone. Double-tap the app's default watermark to change the text, font, font color, and opacity. You can pick from 47 in-app fonts, using sliders to adjust other settings. Moving the watermark is as easy as dragging and dropping. The intuitive interface allows you to create the watermark and share your photo in less than a minute.—KARISSA BELL

iPhone | ; \$2; Mentz Hill Studios



FileMaker Go 12.0.2 for iPad

PRODUCTIVITY The latest version of FileMaker's mobile offering, built to work with the new FileMaker Pro 12 desktop software, is the best thing to happen to databases in a long time. FileMaker Go runs FileMaker databases on your iPad (or on your phone if you're using the iPhone version [macworld.com/7757]). FileMaker Go 12 can export data to half a dozen file formats including tab-delimited, .csv, and .xlsx. Printing from Go is greatly improved. And FileMaker has even eliminated the price tag.—WILLIAM PORTER

iPad | ; free; FileMaker

APP GEMS

iPad Drawing Tools



Brushes—iPad Edition

An iPhone favorite is even better on the iPad (macworld.com/6272).



Layers Pro Edition for iPad

macworld.com/6496



Inspire Pro

macworld.com/7764

Find other drawing apps at macworld.com/7765.

Cinderella 1.0.5

KIDS Cinderella looks spectacular on any device: The detailed backgrounds resemble paintings, and the paper-cutout main characters will appeal to the ebook's young target audience. There's more to do than just look, though—you can pan around, pinch to zoom,

and tap characters to make them speak. Several scenes feature even more interactive elements that allow readers to assemble Cinderella's carriage or help her and the prince dance. These features put a refreshing spin on a familiar tale.—PHILIP MICHAELS

iPhone/iPad | ; \$6; Nosy Crow



Monty Python: The Holy Book of Days

ENTERTAINMENT One of the coolest features in Monty Python: The Holy Book of Days, the iPad app chronicling the filming of *Monty Python and the Holy Grail*, is that it can sync with the Blu-ray disc of the film on networked players, allowing you to call up scenes on the app as they appear on your TV. Even without that option, this app is worth a download for dedicated Python fans. It's packed with extras, including the film's shooting script, audio from the floor tapes, excerpts from Michael Palin's diary, outtakes, and more. The 1.02GB app is hefty, but it's every bit as valuable as the grail that Arthur and his hapless knights seek.—PHILIP MICHAELS
iPad | ; \$5; Melcher Media



Ziggurat 1.0.21

GAMES You've got no hope of surviving an onslaught of killer robots in Ziggurat; instead, your only course of action is to see how many you can take out before they rip you to shreds. This arcade-style defense shooter from Freshuu sports charming retro pixel art and a catchy chiptune soundtrack, but it's the challenge of frantically defending yourself against an endless wave of attackers that makes it so hard to put down. Racking up kills is super-satisfying, even when the average game lasts under a minute.—NATHAN MEUNIER
iPhone/iPad | ; \$1; Freshuu



More Reviews

See more iPhone, iPad, and iPod touch apps we've tested at iOS Central (macworld.com/4164).

APPLICATION	DESCRIPTION	PRICE	RATING	FIND CODE*
iBomber Defense Pacific 1.2 Chillingo	iPhone/iPad tower defense game	\$3		7758
Marvel AR 1.0.0 Marvel Entertainment	augmented-reality app for comics	free		7759
Notes Plus 3.0.3 Viet Tran	iPad note-taker	\$8		7760
Windosill 1.1.2 Vectorpark.com	iPad puzzle game	\$3		7761
The World by National Geographic 1.2 National Geographic Society	iPad atlas	\$4		7762

* In a browser's address field, typing in a find code after macworld.com/ directs you to a product's review or overview. For example, macworld.com/7758 takes you to our review of iBomber Defense Pacific.

ESSENTIAL APPS

Match-Three Games

These matching games show that three's a crowd-pleaser (macworld.com/7763).



Chop Sushi There's nothing fishy about pairing similar menu items.



Luxor HD Smash marbles in Egyptian ruins in this distinctive game.



Magic Balls Island More movement and power-ups make this unique.



Monster Flip Misbehaving monsters show personality in this game.



SlideShark 1.5

PRODUCTIVITY SlideShark combines a Web-based service and an iPad app to easily convert your PowerPoint presentations for Apple's tablet, though you may lose some of the more elaborate effects. The service is free for 100MB of storage. (You can pay for more capacity or for a group account.) Business travelers who rely heavily on presentations should make SlideShark part of their travel kit.—PHILIP MICHAELS
iPad | ; free; Brainshark

App Guide

AppGuide.com features our complete database of iOS app reviews.



REVIEWS

Accessories and Add-ons
for Your iOS Devices



HARDWARE

Annex Products Opena Case ▾

Combining a hard-shell case with an integrated slide-out bottle opener, the Opena Case is more than just a gimmick: The double-duty iPhone 4 and 4S case provides the sturdy protection you'd expect from a hard-shell offering, but in a slim profile. The opener doesn't always slide out smoothly, but the case functions perfectly when it comes to protecting your phone.

4.5; \$40; Annex Products;
www.openacase.com

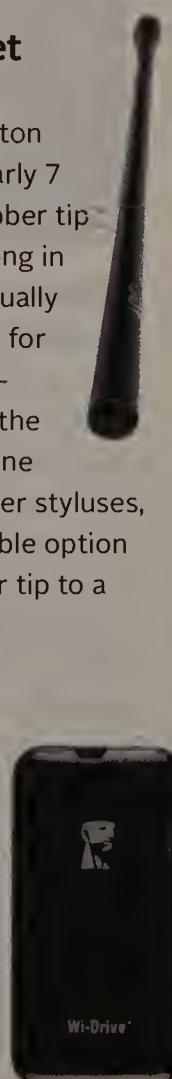
The Joy Factory Monet Stylus ▾

Resembling an elongated cotton swab, the Monet Stylus is nearly 7 inches long, with an 8mm rubber tip that's nearly a quarter-inch long in its own right. That design actually makes the Monet a good tool for digital painting: Unlike a traditional nib stylus, you can use the Monet at almost any angle. Line work isn't as fluid as with other styluses, but the Monet is a fairly capable option for those who prefer a rubber tip to a capacitive brush.

4.5; \$30; The Joy Factory;
thejoyfactory.com

Kingston Wi-Drive ▾

If you find yourself bumping up against your iPad's storage limits, turn to the Wi-Drive, an external flash drive about the size of an iPhone 4. Getting files from your Mac onto either the



16GB or the 32GB Wi-Drive can be a little confusing—two storage devices show up on your Mac when you connect the drive via USB—but accessing files from your iPad is easy. You can only access the files on it via the free Wi-Drive app; nonetheless, it's a nice companion for your iPad.

4.5; 16GB, \$80; 32GB, \$130; 64GB, \$144; Kingston; www.kingston.com

MonCarbone HoverCoat ▾

With a minimalist design handcrafted from carbon fiber, the lightweight

HoverCoat hard-shell case for the iPhone 4 and 4S radiates quality in every facet of its design. The case snugly fits the back and sides of the iPhone. At 8 grams in weight and 0.6mm thick, the HoverCoat adds barely any heft to the iPhone, though its light weight belies the strength of its construction.

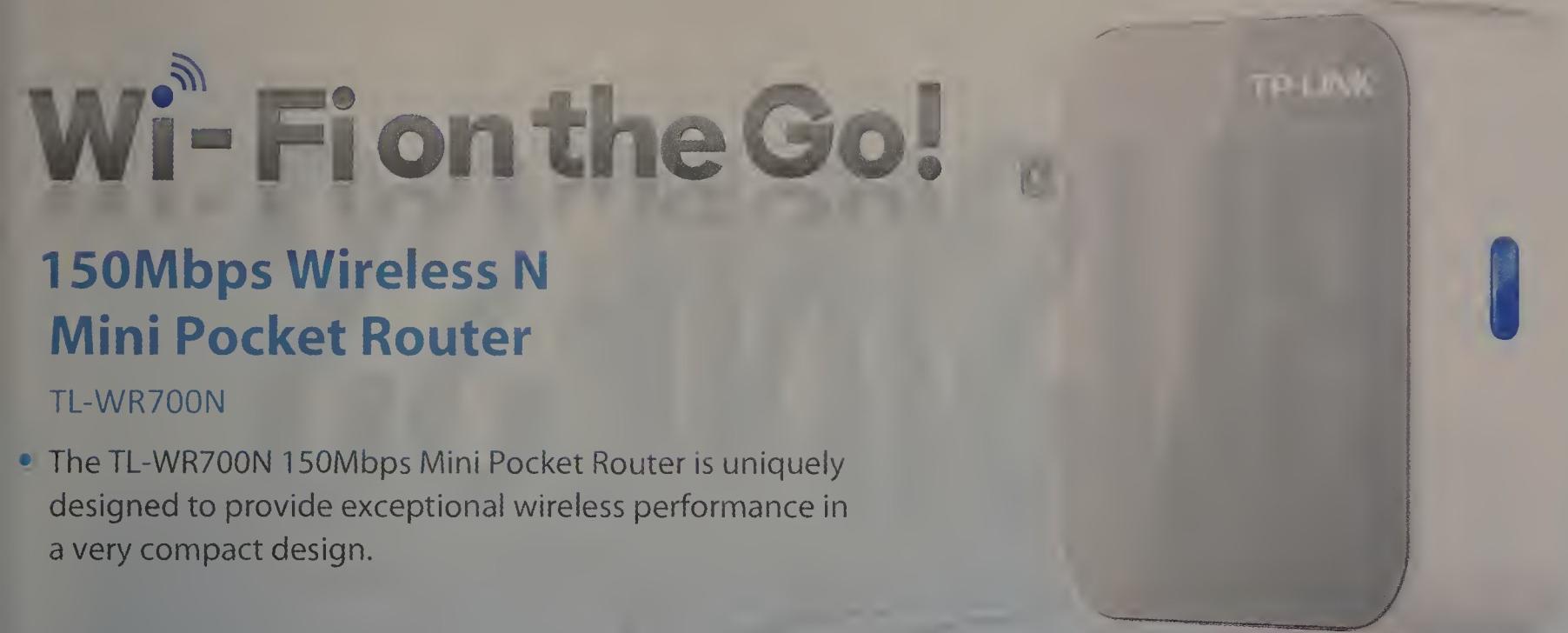
4.5; \$50; MonCarbone;
www.carbonfibergear.com



iOS Devices: Current Lineup

PRODUCT	SPECS	RATING	PRICE ^a	DISPLAY	PERFORMANCE	FIND CODE ^b
iPad ^c	16GB	Wi-Fi, 4.5 ; 4G, 4.5	Wi-Fi, \$499; 4G, \$629	9.7-inch color (Retina)	Up to 10 hours on Wi-Fi; up to 9 hours on 4G	7696 Wi-Fi 7699 4G
	32GB	Wi-Fi, 4.5 ; 4G, 4.5	Wi-Fi, \$599; 4G, \$729	9.7-inch color (Retina)	Up to 10 hours on Wi-Fi; up to 9 hours on 4G	7697 Wi-Fi 7700 4G
	64GB	Wi-Fi, 4.5 ; 4G, 4.5	Wi-Fi, \$699; 4G, \$829	9.7-inch color (Retina)	Up to 10 hours on Wi-Fi; up to 9 hours on 4G	7698 Wi-Fi 7701 4G
iPhone 3GS, 4, and 4S	16GB (iPad 2)	Wi-Fi, 4.5 ; 3G, 4.5	Wi-Fi, \$399; 3G, \$529	9.7-inch color	Up to 10 hours on Wi-Fi; up to 9 hours on 3G	7030 Wi-Fi 7031 3G
	8GB 3GS ^d	4.5	free	3.5-inch color	9 hours of Wi-Fi Internet; 5 hours of 3G talk time	6255
iPhone 4S ^e	8GB 4 ^e	4.5	\$99	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	7516 GSM 7520 CDMA
	16GB 4S ^e	4.5	\$199	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7517
	32GB 4S ^e	4.5	\$299	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7518
	64GB 4S ^e	4.5	\$399	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7519
iPod Touch	8GB	4.5	\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB	4.5	\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
	64GB	4.5	\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6555

^aAll prices are Apple's prices. ^bIn a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. ^cThere are separate Wi-Fi + 4G iPad models for AT&T's network and for Verizon's. ^dThis phone is available only with an AT&T plan. ^eThese models are available with an AT&T, Sprint, or Verizon plan.



TL-WR700N

- The TL-WR700N 150Mbps Mini Pocket Router is uniquely designed to provide exceptional wireless performance in a very compact design.

**Small** Enough to Fit in Your Pocket

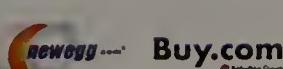
Wi-Fi on the Go
Compact-size design
Ideal for home or travel use



Wireless speed up to 150Mbps

Supports AP, Router, AP Client,
Bridge and Repeater operation modesSupports WEP, WPA/WPA2,
WPA-PSK/WPA2-PSK encryptionsCompatible with IEEE 802.11n/g/b
Compatible with all 2.4GHz Wi-Fi devices

TP-LINK products available at:

MICRO CENTER
Computers & electronics

Buy.com

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Find us on Facebook and Twitter to receive
future promotions and news!

BUSINESS CLASS

THE BEST WORK APPS FOR YOUR iPad

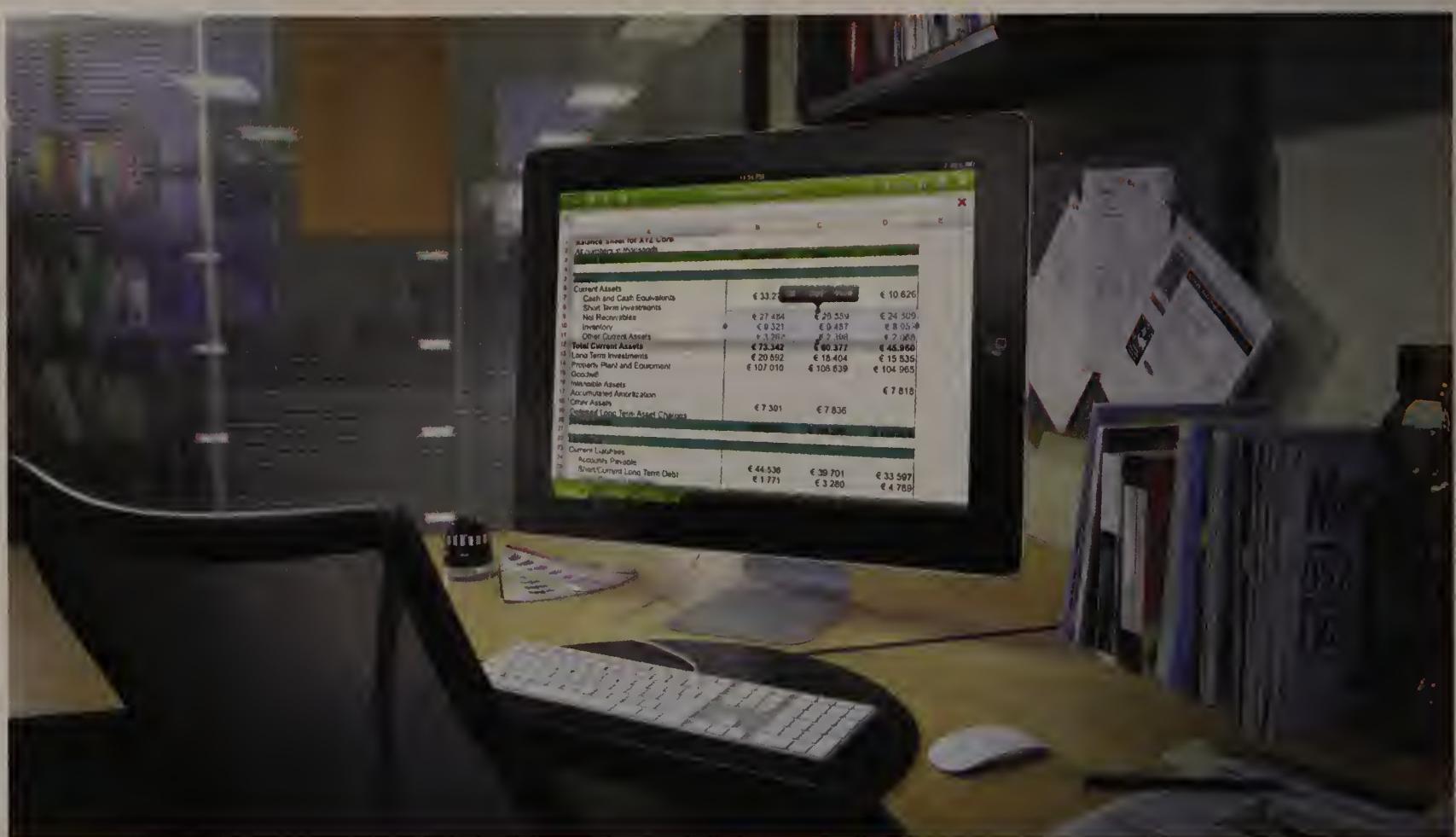
It's not a question of whether you can get real work done on an iPad. After doing so ourselves, and talking to readers who do likewise, we know that's happening already. The question is what *kind of work* you can get done. Email, Web browsing—that sort of thing we know we can do. But what about the heavier office chores, like editing Microsoft Office documents? And how efficient is the iPad-to-Mac-and-back workflow? How easy is it to keep all those work documents truly in sync, no matter which device you use to work on them?

Those were the kinds of questions we sought to answer when we asked a few of our contributors to look at business apps for the iPad. We tasked Joe Kissell with surveying the various alternatives for editing Office docs on the tablet. (There are more than you might think.) We sent Lex Friedman off to assess the state of file syncing via services such as Dropbox and Box; it's a constantly evolving field, and the tools are advancing all the time. And we asked Tony Bradley to look at some of the leading apps for attending—and even running—videoconferences from the iPad. (The new tablet's Retina display makes such meetings more like being in the room with your colleagues than ever before.)

The iPad won't replace the Mac anytime soon as a tool for tasks like high-end design or media work. But it's fully capable of handling the everyday jobs—and not just the email part—that many of us do all day.

PHOTOGRAPHY BY PETER BELANGER





OFFICE ON THE iPAD

BY JOE KISSELL

For better or for worse, Microsoft Office is the de facto standard for business documents. But what do you do if your work requires you to work on Word documents, Excel spreadsheets, or PowerPoint presentations, yet you want to use an iPad as your portable business machine? Thanks to a variety of increasingly powerful apps, you can edit Office docs on Apple's tablet.

iWORK

One natural option is Apple's iWork apps—Pages (**★★★½**; \$10; macworld.com/6129), Numbers (**★★★½**; \$10; macworld.com/6130), and Keynote (**★★★½**; \$10; macworld.com/6131). They can import and export documents in the corresponding Microsoft Office formats and offer powerful, easy-to-use tools for creating and editing files.

However, it's inconvenient at best to exchange files between a Mac (or PC)

and an iPad when those files are in Microsoft Office formats. And when you do import an Office file or export an iWork file in Office format, you lose essential formatting, tracked changes, and other attributes.

If you're content to keep your Office docs in iWork format after importing them—or to give up unsupported formatting—iWork is arguably your best choice. But if ease of transfer and maintaining fidelity with the original are your priorities, you'll want another solution.

GOOGLE DOCS

One of the alternatives is to use Google Docs (docs.google.com). It's a convenient platform that requires no software beyond a Web browser, provides automatic backups and versioning, and makes sharing files easy. Unfortunately, Google Docs isn't great on the iPad.

For one thing, like iWork, Google Docs loses some of the document's formatting when you import an Office doc into it for editing. Furthermore, when you open Google Docs on an iPad, by default Google gives you the mobile version of Google Docs (for word

processing documents); that version lets you edit text, but offers no formatting controls whatsoever. If you try to switch to the regular version, you get a barely functional interface.

Similarly, with the mobile version of Google Spreadsheets, you can edit cell values, add rows, and change sort orders. But if you switch to the desktop-style Spreadsheet View, many controls become inoperable. Google Presentations documents are always read-only in Safari on an iPad.

If you create documents in Google Docs, or upload files from your Mac and store them in your Google Docs account, you can use the native editors built into any of the many third-party iPad apps that connect directly to Google Docs. For instance, the latest version of Light Room's \$5 GoDocs lets you switch easily between the standard desktop view of Google Docs and the mobile version, and, unlike Safari, it supports typing in the desktop view (macworld.com/7755).

OFFICE SUITES

There are a number of all-in-one office suites for the iPad, with word processing, spreadsheet, and presentation tools. Among the best examples of the genre

are DataViz's Documents To Go Premium (; \$17; macworld.com/6829); Byte Squared's Office2 HD (; \$8; macworld.com/7746); Quickoffice's Quickoffice Pro HD (; \$20; macworld.com/7747); and Picsel's Smart Office 2 (\$5; macworld.com/7748).

All four can edit documents from Word, Excel, and PowerPoint, and all offer direct ties to a variety of cloud-based services, including Google Docs and Dropbox, making it easy to get documents in and out. The first three also preserve nearly all formatting and document characteristics during the round trip from Microsoft Office on a Mac to the iPad and back. (Smart Office leaves most document elements intact, but it removes some aspects, such as paragraph borders and backgrounds, change tracking, and comments, when you save the document.)

Here's a rundown of how these four suites compare when it comes to handling different kinds of Office docs:

Word Processing Each app offers a respectable range of formatting controls for word processing documents, such as font, size, style, text and highlight color, alignment, indentation, and bulleted and numbered lists. Beyond that, they diverge quite a bit.

Documents To Go Premium displays some imported elements, such as graphics and tables, without letting you edit them. Other elements, including named styles, don't appear but are still preserved when you save imported docs (although you can't apply those styles to text). The app also offers adjustable paragraph spacing, find-and-replace, and word count features.

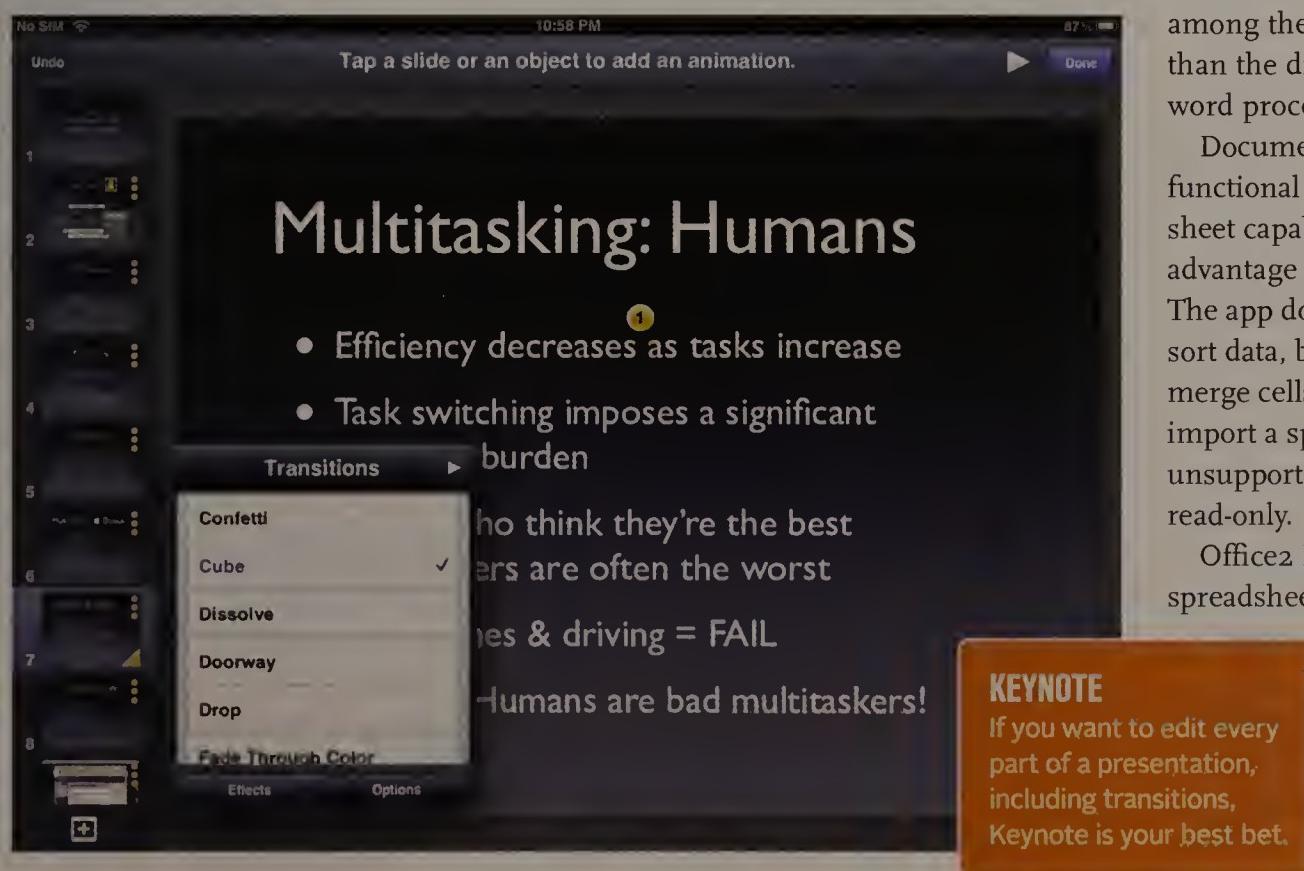
Office2 HD has a wide range of editing and formatting controls. You can adjust paragraph spacing; create multiple columns; add and edit tables and graphics; set page, column, and section breaks; set margins and tab stops; add footnotes and endnotes; check your spelling; and see your current word count. It has some built-in text-styling tools of its own, but it doesn't work with styles embedded in imported documents.

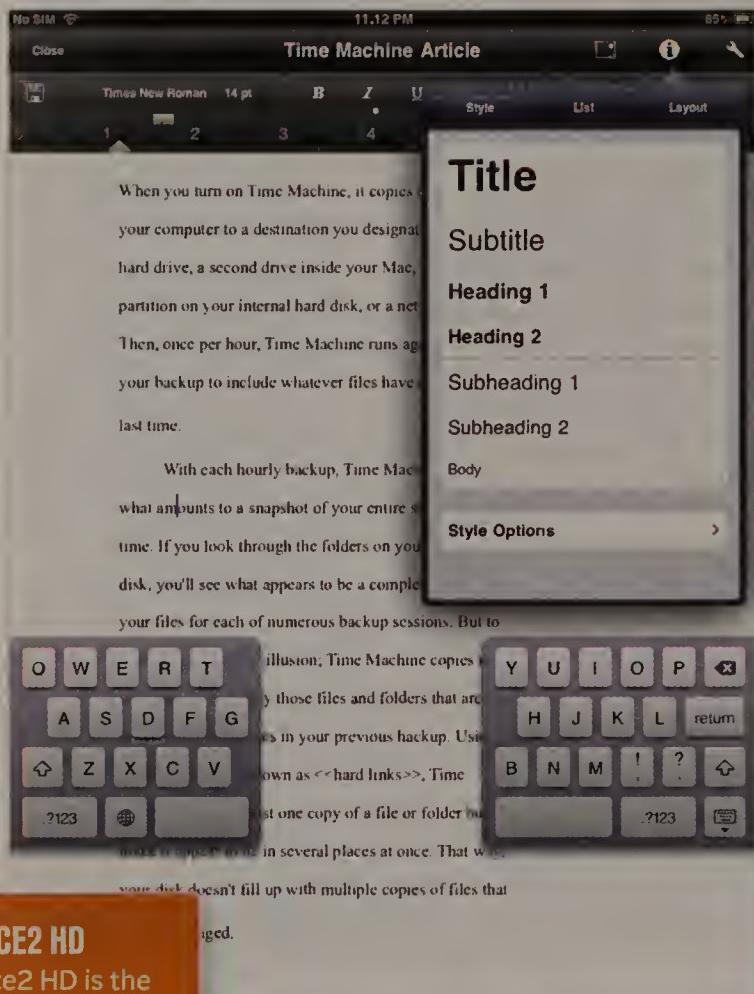
The other two apps don't have much in the way of extra features. Quickoffice Pro HD offers word count and find-and-replace options. Smart Office 2 lets you add images and includes a find (but not a replace) capability.

Spreadsheets The spreadsheet components of all the office-suite apps let you do things like adjust fonts, text color, alignment, and number formatting, and they include a wide range of built-in functions. But the differences among them are more pronounced than the distinctions between the word processors.

Documents To Go Premium has a functional but unexceptional spreadsheet capability, and it doesn't take good advantage of the iPad's touch interface. The app does allow you to search and sort data, but it can't display charts or merge cells. And although it lets you import a spreadsheet that contains unsupported functions, it makes the file read-only.

Office2 HD has a broad set of spreadsheet features, as well as a nicely designed interface. It supports sorting your data and, unlike Documents To Go Premium, lets you merge cells and change borders. But it





OFFICE2 HD

Office2 HD is the only iPad suite that lets you apply named styles.

has one potentially serious drawback:

Although it preserves most imported document features when you save a worksheet, it doesn't retain charts.

Quickoffice Pro HD offers easier selection and editing than the others, and also supports find and replace. It doesn't display charts from imported spreadsheets, but it does preserve them when you save. Other than that, it's fairly basic—for example, it doesn't provide cell borders, merging, or sorting.

Smart Office 2 has a slightly awkward user interface even for simple things such as inserting mathematical functions, and its performance can be sluggish. Like Quickoffice Pro HD, it lacks support for cell borders, merging, and sorting; it has a find feature but no replace. Though it can't add new charts, it does display ones from imported spreadsheets.

Beyond these all-in-one office apps, I should mention two other iPad apps specifically for editing spreadsheets (but not Word or PowerPoint documents). Savy Soda's Documents 2 connects to Google Docs but strips out all formatting

when importing documents and offers only minimal format options and a handful of formulas (\$2; macworld.com/7751). Mariner Software's \$6 Mariner Calc Spreadsheet for iPad (macworld.com/7752), on the other hand, has a solid set of features and can read and write Excel files (.xls only, not .xlsx). However, it doesn't connect to cloud-based services for transferring files, nor does it preserve all formatting when saving imported spreadsheets.

Presentations

Although there are numerous good options for editing Word and Excel

documents on an iPad, nothing can hold a candle to Apple's Keynote for editing PowerPoint presentations. Even though it permanently strips out some unsupported features on import, Keynote provides vastly more control over your presentations than anything else currently available on the iPad. That said, the four office-suite apps we're discussing do offer some presentation

attributes. Office2 HD lets you change text, formatting, and alignment, but, bizarrely for a presentation tool, offers neither bulleted nor numbered lists. You can add shapes and graphics, change the front-to-back arrangement of elements on a slide, and set a slide's background to an image or a solid color. Quickoffice Pro HD lets you modify text attributes (including bulleted lists), add images and shapes, and rearrange visual elements, but you can't change a slide's background. Smart Office offers editing capabilities similar to those of Quickoffice Pro HD, but, as in its spreadsheet mode, it felt less than responsive.

THE BOTTOM LINE

If you need to edit Office documents on an iPad, first consider whether they will be traveling back and forth between your iPad and Microsoft Office itself. If not, Apple's iWork apps will likely give you the best experience. If you must preserve full Office compatibility and want a native app, your best choices depend on the type of document you're editing. For Word documents, Office2 HD is the clear winner. For Excel spreadsheets, if you don't need to import documents containing charts, Office2 HD is again the best choice, but if preserving charts is essential, I'd give the nod to Quickoffice Pro HD, which is a bit easier to use than Documents To Go Premium. And for

CONSIDER WHETHER YOUR DOCUMENTS NEED TO TRAVEL BACK AND FORTH BETWEEN YOUR iPAD AND MICROSOFT OFFICE.

features and may be adequate in a pinch. They all let you insert, duplicate, delete, and rearrange slides from imported PowerPoint presentations. And they can all play presentations, although without any builds, transitions, or animations.

Documents To Go Premium lets you edit only the text of imported PowerPoint presentations; you can't alter formatting, layout, graphics, or any other visual

PowerPoint presentations, Keynote is the best by far, but among the office-suite apps, I'd lean toward Quickoffice Pro HD. (For yet another option, see "Windows on the iPad.")

Senior Contributor **Joe Kissell** is the senior editor of TidBITS and the author of the ebook *Take Control of Working with Your iPad*, second edition (TidBITS Publishing, 2011).

WINDOWS ON THE iPad

In addition to iWork, Google Docs, and third-party office suites, you have another option when it comes to editing Office docs on the iPad: You can connect to a remote Windows server from your iPad and run the Windows version of Office remotely. Three services in particular (all with companion iOS apps) enable you to do this: CloudOn (site.cloudon.com), Nivio (us.nivio.com), and OnLive Desktop (desktop.onlive.com). Here's how they compare.



CLOUDON

CloudOn (which is completely free) doesn't connect you to a remote Windows desktop, as Nivio and OnLive Desktop do. Instead, it opens a file browser that shows you your Dropbox or Box account.

Above that list are three icons: One is for selecting the view (list, icon, or a view that looks like Cover Flow). The middle one provides access to CloudOn's settings, help, and a tutorial. And the third lets you launch Word, Excel, and PowerPoint. To open one of these apps in CloudOn, tap its icon or tap a file formatted for that app.

Once open, the apps look much like their Windows desktop counterparts, with the selected ribbon across the top of the screen, tabs for the different ribbons (Home, Font/Paragraph, Insert, and so on) above that, and the document itself below.

CloudOn has done a fine job of making Office touch-friendly: You tap on the tab for the ribbon you want to open, tap on the tool you want to use, and tap on text you want to select. For text input, you get the standard iOS keyboard, augmented by a row of special keys (Control, Alt, Shift, and so on).

When you're done editing, you tap a bar at the top of the screen; CloudOn autosaves your document and takes you back to the file browser. There you can perform basic file-management chores (copying, moving, and renaming files).



NIVIO

Unlike CloudOn, Nivio (which offers free accounts as well as several tiers of paid plans) actually gives you remote access to a real Windows desktop from the iPad. You access that desktop either through your iPad's browser or with a third-party app such as Wyse Technology's free PocketCloud Remote Desktop (macworld.com/7783).

However you access that desktop, you can click its nApps icon to gain access to more than 40 Windows programs, ranging from the Office apps to software from Adobe, Google, and others. Most have free trial periods; after that, pricing varies. (For example, Office apps rent for \$7.50 per month individually, and \$15 a month for the whole suite.)

If you select nDrive, you get Nivio's built-in file browser, displaying your documents. To upload docs, you can either

use the Web interface's Upload link or an nDrive Mac app; neither is as simple to use as Dropbox or Box.

Nivio provides a clever mouse-like cursor for the iPad screen—you drag it around with your finger, but you can also click on things as if you were using a regular mouse. That cursor also provides some handy Windows keyboard shortcuts.

In testing, I found that Nivio suffered from the same screen lag that afflicts many remote-desktop apps: I'd click on something and then have to wait a couple seconds (or more) for my click to take effect.

In sum, Nivio has some clever touches—that cursor, for example—but it doesn't make Mac-to-iPad integration as seamless as it should be.



ONLIVE DESKTOP

Like Nivio, OnLive Desktop (which also like Nivio has both free accounts and paid options) puts an actual Windows desktop on your iPad. But rather than offer you all the apps that Nivio does, OnLive gives you just the main Office apps—Word, Excel, and PowerPoint—plus Adobe Reader and Internet Explorer.

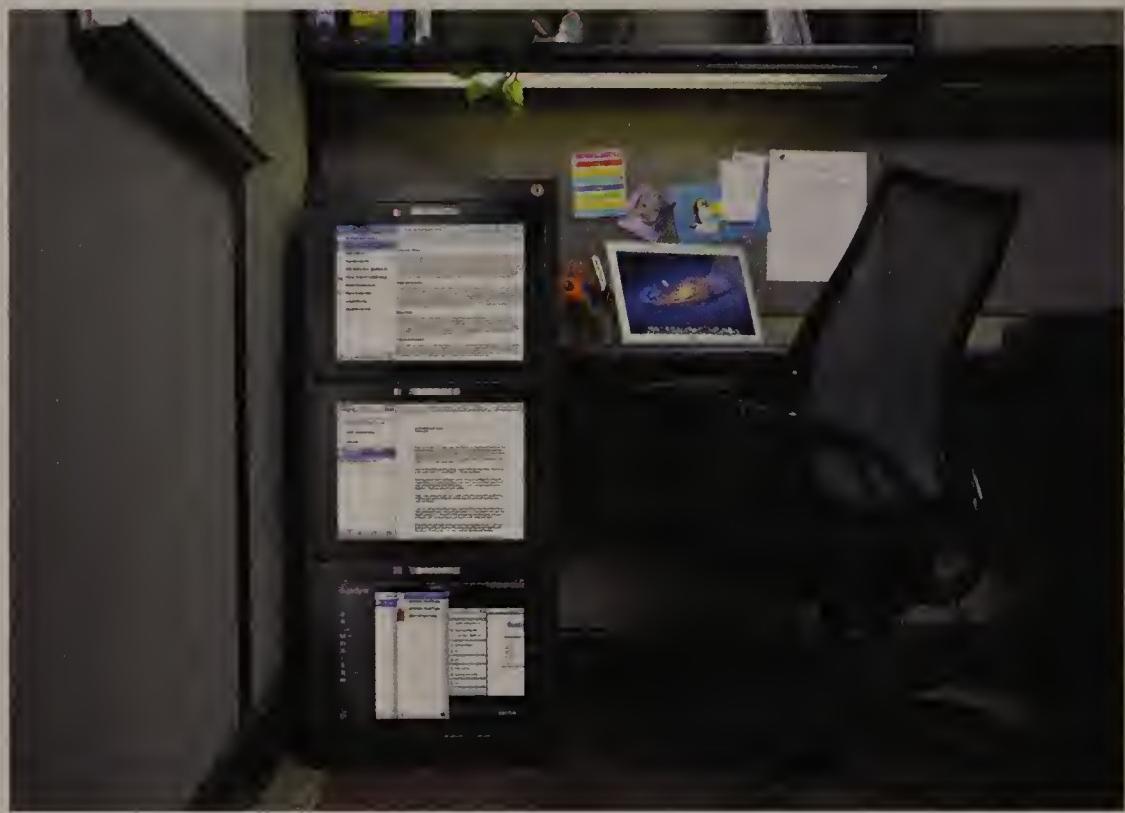
As with CloudOn, you can use standard iPad taps to interact with the Windows interface, or use the app's Windows-optimized pop-up keyboard. Unfortunately, some features don't work as you might expect; for example, you can't tab between form fields. Keyboard response is decent but occasionally lags.

As with Nivio, file management is awkward. You have a Windows-standard My Documents folder where you can save files from the Office apps. (You're given 2GB of space.) You can upload and download files to that folder from another machine via a Web browser. But while OnLive touts its compatibility with Dropbox and Box, it doesn't integrate that access well: To edit a file stored on Dropbox, you must navigate to it using the OnLive browser, and then either open it in the associated app or save it to your OnLive documents folder. If you open it in an Office app, you have to save it to OnLive; you can't save it back to Dropbox.

THE BOTTOM LINE

For now, CloudOn is the smoothest of the three Windows-on-your-iPad apps. I found it more responsive than OnLive or Nivio, as well as more intuitive; Office feels more like a native iPad app in CloudOn than in either of the other two. Still, if you need to edit Windows Office docs, all three offer viable—if imperfect—solutions.—DAN MILLER

CLOUDON
When you're editing text in CloudOn, you get an Office-friendly keyboard.



YOUR FILES ANYWHERE

BY LEX FRIEDMAN

Accessing the same set of files from an iPad and a Mac is commonplace now, thanks to file-syncing services. Dropbox and iCloud may be the best known, but they are just two of a growing range of options. Here's my take on some of the better-known alternatives. Keep in mind that as I was doing the comparison, even more options were surfacing. Among the newest are Google Drive, an updated version of Microsoft's SkyDrive app, Quickoffice Connect, and Cubby.

DROPBOX

When you first install Dropbox on your Mac, it creates a Dropbox folder with 2GB of free storage (**4½**; macworld.com/a/1156705). Files and folders you drag into the Dropbox folder are automatically uploaded to Dropbox and stored on your Mac. Connect other computers to your Dropbox account, and your files automatically sync with those systems as well. And a universal Dropbox iOS app lets you access your Dropbox-stored files from your iPad (**4½**; macworld.com/5593).

If you need more storage, Dropbox offers paid options: You can spend \$10 per month (\$99 per year) for 50GB, or \$20 per month (\$199 a year) for 100GB.

Getting files into Dropbox from your Mac is dead simple—you literally just save them to Dropbox or move them to the right folder. Getting at those files on your iPad with the iOS app isn't hard either: On the left, there's a sidebar showing your files, along with four tabs: your Dropbox folder, Favorites, Uploads, and Settings. The larger right pane can show previews of document formats that iOS handles natively, like music and video files, Microsoft Office and Pages documents, PDFs, and images. If you have apps installed that can open or edit the files in your Dropbox folder, the Dropbox app offers an option to open your files in those apps.

Mark a file as a Favorite and it's cached locally on your device, meaning that you can access it even when you're offline. The Dropbox app tries to ensure that the latest version possible is cached, but some manual policing is involved; tap an Update All button within the app before you head out if you know you'll be without an Internet connection and will need access to your Favorites. The Uploads tab lets you sync photos and videos from your iPad's Camera Roll to Dropbox. Settings include options to choose image and video upload quality, a passcode lock for added security, and the maximum amount of local storage the app can consume.

You can share files from within the app by selecting them and tapping the appropriate button; you get options to copy a shareable URL to the clipboard or compose an email with that URL in it.

Oodles of apps offer built-in Dropbox integration—you'd be hard-pressed to find a text editor for the iPad that doesn't.

BOX

Box (box.com) overlaps somewhat with Dropbox's basic offering, though in some ways, Box is demonstrably superior—for example, the service includes 5GB of free storage space, compared with Dropbox's 2GB. But Box's primary focus is on

business customers; if you sign up for a free account, you must agree to use it only for personal data.

A free Box account is subject to several limitations: You can't upload files larger than 25MB (Dropbox has no individual file size limit). And there's no free option to create a Dropbox-style folder on your Mac that syncs your data to Box automatically; instead, you have to upload files by dragging them into Box's Web interface or clicking an Upload button. You can't drag entire folders into Box, only individual files.

If you're willing to pony up some cash, you can pay \$10 per month (or

While far fewer apps offer Box integration compared to the number that work with Dropbox, you'll still find plenty of Box-friendly options (including Quickoffice Pro HD, Documents To Go, and NetSuite; see www.box.com/apps for more).

SUGARSYNC

SugarSync is a bit more like Dropbox than it is like Box—and it offers some clever advantages over each (sugarsync.com). First, let's talk pricing. A free SugarSync account offers 5GB of storage. Paid options include \$5 per month (\$50 per year) for 30GB, \$10 per month (\$100 per

year) for 60GB, \$15 per month (\$150 per year) for 100GB, \$25 per month (\$250 per year) for 250GB, and \$40 per month (\$400 per year) for 500GB.

When you install SugarSync Manager on your Mac, you can choose which folders from other computers it syncs to your local machine. As is also the case

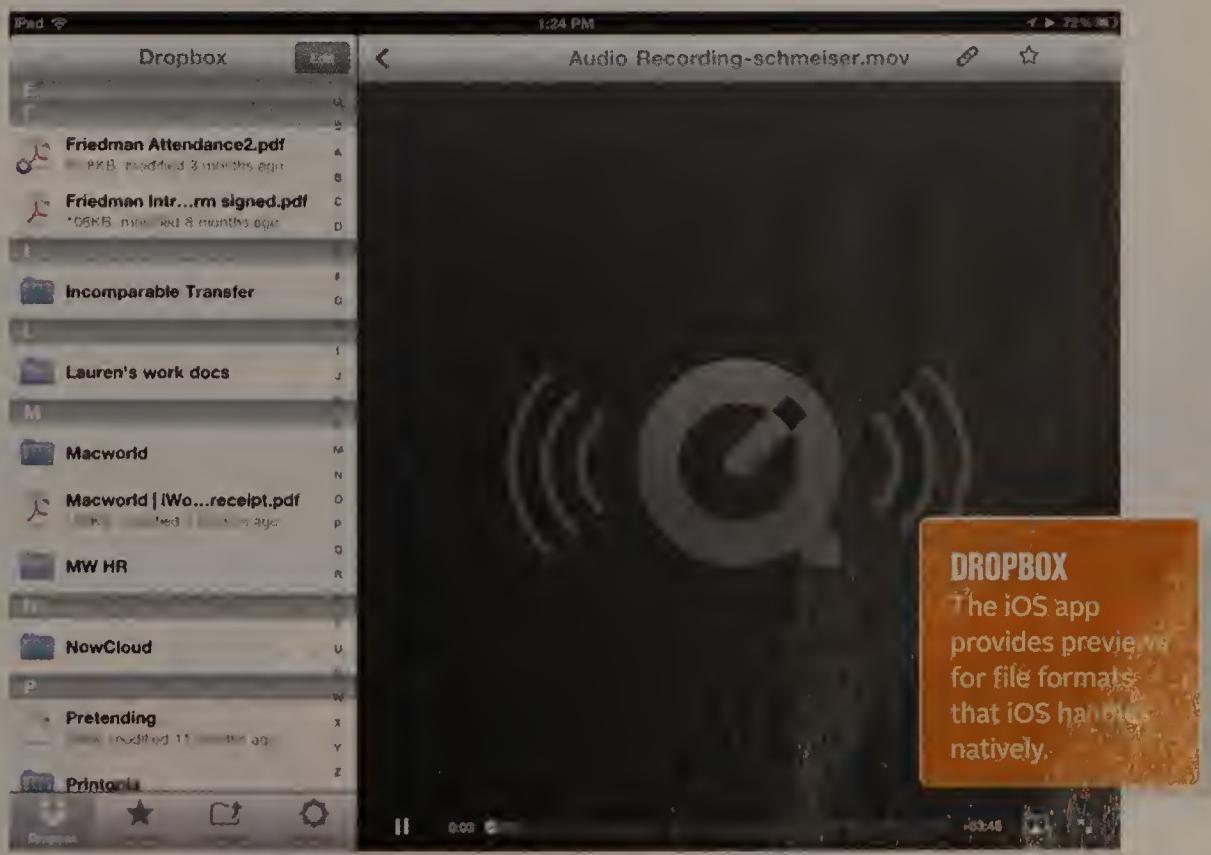
The SugarSync app, like those of Dropbox and Box, sports a two-paned interface. Despite that visual similarity, the app offers several unique features. Its sidebar lists multiple devices—each device on which you've installed SugarSync—so that you can easily navigate files stored on, say, your desktop Mac, your laptop, and the iPad itself. Like its competitors, SugarSync offers options to sync or back up your iPad's photos and videos. The left pane gives you quick access to your

YOU'D BE HARD-PRESSED TO FIND A TEXT EDITOR FOR THE iPAD THAT DOESN'T OFFER BUILT-IN DROPBOX INTEGRATION.

\$100 per year) for 25GB of storage, or \$20 per month for 50GB; each of those two plans has a maximum file size of 1GB. That pricing isn't as good as Dropbox's. To gain Dropbox-style desktop syncing, you need to upgrade to a business plan, which costs \$15 per user per month (with a minimum of three users) and includes 1000GB of storage with a 2GB maximum file size.

So, how's the iOS app (; macworld.com/6965)? Actually, it's very much like Dropbox's—the same two-paned layout with files on the left and previews on the right, the same notion of Favorites for caching files on your iPad, and the same option to use a passcode lock for added security. As with the Dropbox app, you can use the Box app to upload photos and videos, as well as open compatible files in other iOS apps. The Box app also includes an option to save comments with your files; you can see those comments in the app and on the Web.

Pull down on your list of files and release to refresh it. A separate Updates tab offers a quick view of your most recently added or updated files, giving the Box app a leg up for users who frequently manipulate files.



year) for 60GB, \$15 per month (\$150 per year) for 100GB, \$25 per month (\$250 per year) for 250GB, and \$40 per month (\$400 per year) for 500GB.

When you install SugarSync Manager on your Mac, you can choose which folders from other computers it syncs to your local machine. As is also the case

DROPBOX
The iOS app provides preview for file formats that iOS handles natively.

Magic Briefcase, Web Archive, and Recent Documents.

It's worth noting that SugarSync's iPad app was the only one I tested that crashed regularly, especially when I relaunched it shortly after I had used it.

iCLOUD

Apple's own cloud-storage solution is called iCloud, and it's a very different beast from the other solutions we've discussed. There's no stand-alone iCloud app to launch on your Mac or iPad. The service doesn't create a user-accessible iCloud folder on your desktop where you can drop files for syncing. (Though you can access an iCloud folder on your Mac, Apple warns that doing so is unsupported and may result in data loss.)

iCloud is free with 5GB of storage; for \$20 per year you get 15GB, \$40 per year gets you 25GB, and \$100 per year gets you 55GB.

iCloud is, in fact, a hodgepodge of features and syncing technologies under one name: You can use iCloud to sync email, reminders, calendars, and contacts between Macs and iOS devices. You can use it to back up your iPad's data. And you can use the service in tandem with Apple's \$25 a year iTunes

Match music-syncing service. Those are features none of the other services covered here provides.

But iCloud does offer its own take on document syncing, most easily demonstrated by Apple's iWork apps—Pages, Numbers, and Keynote. On the iPad, working with iCloud-hosted files in those apps is seamless. On the Mac, it's pretty clunky. We'll deal with the bad news first.

The Mac versions of the iWork suite currently cannot access iCloud-stored files directly. That may change over the next few months. Mountain Lion, the new version of OS X coming out this summer, will reportedly allow you to access documents in the cloud via an interface similar to the old Open dialog box familiar to Mac users.

For now, the only way to open or save iWork documents in iCloud on your Mac is by visiting the iCloud website (icloud.com). When you go to the site, you can see any existing iCloud-stored documents for each of the three iWork apps; download, duplicate, and delete files; and upload new ones. If you download a Pages document from iCloud.com and edit it on your Mac, you then need to upload your edited version to the website again.

The situation is better on the iPad. When you fire up an iWork app on the iPad, you see an overview of all your iCloud-stored documents (provided, of course, that you've enabled iCloud syncing; if you're not sure you've done so, go to the Settings app, scroll down to the iWork app in question, and verify that the Use iCloud option is turned on). When you edit your documents on the iPad, the iWork app automatically saves your changes and syncs them back to iCloud.

iCloud differs from the other file-syncing services in one important respect: Let's say you have a couple of text editors on your iPad that can sync with Dropbox. Each of those editors can open any of the text files you've stored there. That can't happen in iCloud. Instead, each application gets its own dedicated virtual file space. In other words, you can't open a Pages document stored on iCloud in any other text-editing app.

THE BOTTOM LINE

So, which service should you choose? That's the million-dollar question, right? Actually, it's not. The nice thing is that you don't necessarily have to choose at all: You can use these services in tandem. And you probably should, because none of them is a perfect solution. iCloud within iWork apps has the best-integrated iPad experience but isn't as convenient on the Mac. Dropbox works well on the Mac, and the iPad app is capable and can send documents over to Pages (and many other apps), but—unless you're using an iPad app with Dropbox integration—there's no easy way to sync the updated document with Dropbox again.

I use a combination of Dropbox, SugarSync, and iCloud. (I don't use Box because I find its lack of a free desktop-syncing option too frustrating.) Between those free services, I have more than enough room to sync the data I need to sync, and I can choose the best option for the data at hand.

Lex Friedman is a staff writer for Macworld.

In the wake of the new iPad and its Retina display, [apps are getting bigger](#). And if you're an app addict, that means your 16GB iPhone or iPad may soon start complaining that it's out of storage space. When that happens—or when your iPhone refuses to update your apps because it says there's not enough room to do so—resist the urge to start deleting apps willy-nilly. There are better ways to free up room on your app- and data-packed iPhone. Here are five:

Meet your Match

If you store a lot of music on your iOS device, and you believe that more storage space is worth at least \$25 per year, consider signing up for [iTunes Match](#). With that service, Apple stores your music in Cloud, your entire music library appears on your iOS device, without actually taking up storage space there. So if you currently store several gigabytes of music on your iPhone, signing up for iTunes Match can free up all that space—sort of. iTunes Match on iOS doesn't actually stream your music; it downloads songs on demand to your device. Once you've enabled iTunes Match by signing up on iTunes on your Mac, you can instruct your iPhone or iPad to wipe out its collected store of cached, downloaded songs as needed. Here's how: Launch the Settings app, tap on General, and choose Usage. Wait a moment as your iOS device calculates things. Once the list appears, find the Music line item. Now, you can swipe across Music to bring up the Delete button; tap that, and your cached music gets removed. Remember, this won't impact your ability to enjoy your music on your iOS device. Thanks to iTunes Match, you can keep playing back your music from iCloud whenever you'd like. This trick just clears out songs iTunes Match downloaded to your device, but you can always get them back again.

While you're there...

We said at the outset that you shouldn't start deleting apps at random when you need to free up space. Instead, you want to delete those apps you use the least, but take up the most space. And if you're still at the General → Usage section of the Settings app, your iOS device will be identifying those apps as simple as possible. In fact, the Usage screen lists all of your apps from largest to smallest. If you see, say, GarageBand or iMovie listed at the top—each of which gobble up more than a gigabyte of storage space—and you never use those apps, now might be the time to bid them a fond farewell. Remember that you can always re-download those apps, should a need to use them arise, free of charge. You can delete apps from right within the Usage screen. Tap the name of the app you'd like to remove, and then tap the big Delete App button. If you look through the Usage list, you might find another line-item: Video. You can't remove the Video app, but you can remove individual videos you've stored there. If you stored a couple movies eons ago and no longer need them, now's a fine time to remove those, too.

Photo finish

As iOS devices' cameras get better and better, the photographs that those cameras snap get larger and larger. A photo snapped with the iPhone 4S's rear camera typically weighs in at close to 2.5MB. Take a couple hundred photos with your iPhone, and suddenly you're talking about a half a gigabyte of pictures. Throw in some HD video shot with the camera, and file sizes swell considerably: such video can consume 2.5 or more megabytes per second. The solution? Back those photos and videos up, and get them off your iOS device. You can [import your photos via Photo Stream with iPhoto](#), or connect your iOS device directly to your Mac and import the files that way. iPhoto will offer to delete the photos and videos it imports, another way to make quick work of deleting photos from your device is with Image Capture. If you're a frequent iPhone phototaker, regularly clearing out old (saved!) photos from the phone is a must for free.

Camera Roll control

Speaking of photos, you can give yourself a head start on keeping your iOS s smartly on an app-by-app basis. Third-party camera apps like Instagram and within the app, or within your Camera Roll, too. And some—again, like Insta-edited version saved, both, or neither. Explore your app's in-app settings, and the Camera Roll, or you at least don't need multiple versions of each photo.

BOX

The app's interface is similar to Dropbox's—files on the left, preview on the right.

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MEETINGS FROM THE ROAD

BY TONY BRADLEY

Videoconferencing can be a great business tool. It lets you meet virtually with coworkers and clients no matter where you or they are. It can reduce travel costs while maintaining those all-important person-to-person connections.

The iPad—especially the iPad 2 and the most recent model, with their front- and rear-facing cameras—has proven to be a great videoconferencing tool. The newest iPad raises the bar even higher with its high-quality Retina

display, which makes video meetings seem that much more immediate.

Many videoconferencing services also have iPad apps, but three in particular stand out: FuzeBox's Fuze Meeting HD, Citrix Online's GoToMeeting, and Cisco WebEx Meetings. All three deliver the same core functionality, enabling you to conduct and participate in meetings from your iPad. But beyond that basic concept, they differ significantly.

FUZE MEETING HD

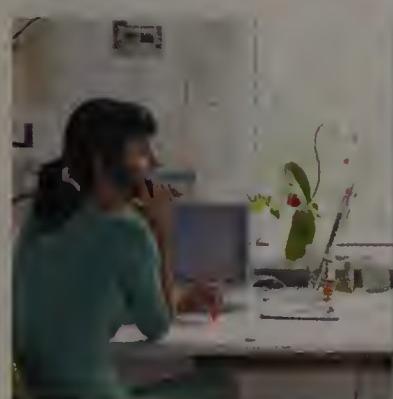
FuzeBox offers a 14-day free trial of Fuze Meeting HD, but after that you

must pay to conduct meetings (www.fuzebox.com). Plans start at \$15 per month per user; however, the base-level Fuze Share plan is limited to 15 meeting attendees. At the high end, the Fuze Business plan accommodates up to 100 simultaneous meeting participants and allows businesses to brand the interface; it costs \$69 per month per user. All Fuze plans offer a 20 percent discount if paid on an annual basis.

The free Fuze Meeting HD app is exceptionally easy to use. You can start a meeting directly from within the app and invite others to attend. You can share content and use the iPad camera to videoconference with other participants. Fuze Meeting HD can call participants to join the audio portion of the meeting; it can deliver the audio via Voice over IP from within the application, or you can use Skype instead.

There are a few things that I particularly like about Fuze Meeting HD. The laser pointer feature puts a glowing red dot wherever your finger is on the iPad, making it easy to direct the attention of attendees to specific areas of the content. Fuze Meeting HD also makes it easy to

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APC

turn other attendees into presenters, allowing them to share content and direct the meeting too.

I also like Fuze's integration with other iPad apps and cloud storage; you can press the Home button on the iPad and leave Fuze Meeting HD to access content from Box, Dropbox, and other supported services, and share it with the active Fuze Meeting with a simple tap. You can also share photos and videos from the iPad's photo library.

GOTOMEETING

Like Fuze Meeting HD, GoToMeeting (www.gotomeeting.com) requires that you have an account before it lets you host a meeting. GoToMeeting offers a 30-day free trial, but after that the service costs \$49 per month—or \$468 for an annual plan. (There's also a little-publicized "personal" plan that costs \$39 per month—with a 25 percent discount if paid annually, bringing the cost down to \$348.) Even at the paid level, you're limited to 15 meeting attendees.

The GoToMeeting iPad app makes it easy to join a meeting: Just enter the meeting ID, your name, and an email address. You can use the microphone and speakers on the iPad for your audio, or call in on the provided conference line from a phone. Once in the meeting, you just tap the video-camera icon at the top to join a videoconference.

GoToMeeting utilizes more of the iPad's display to show the shared content. But when you open a videoconference, the screen shrinks to make room for a strip across the top displaying the video participants. You can drag the bar to make the videoconferencing section bigger or smaller.

Unfortunately, GoToMeeting's iPad app doesn't have any tools to let you launch or conduct a meeting from the tablet itself. In other words, you can participate in meetings, but you can't host them.

CISCO WEBEX MEETINGS

Like Fuze Meeting HD, Cisco offers a 14-day free trial (www.webex.com). After the trial period, you can subscribe



to a \$19 per month plan with WebEx (discounted to \$180 if paid annually), but that plan is limited to only eight participants.

The \$19 per month plan is much cheaper than GoToMeeting's bargain plan, but for just a bit more money Fuze Meeting allows up to 15 attendees instead of just eight. WebEx offers a plan that supports up to 25 users for \$49 per month, or \$468 paid annually.

Videoconferencing from the iPad with WebEx isn't as intuitive or as simple as it should be. You can't, for example, view the participant list or enable videoconferencing from the tablet; the host has to enable both.

The WebEx iPad app is capable of initiating and hosting meetings and videoconference sessions, but it's a bit of a pain. The app has a button for signing in, but logging in requires an email address and password; make sure to set that up on the WebEx site in advance.

Once I was able to log in to the iPad app, starting a meeting was less than intuitive. After tapping around, I finally figured out that I just had to tap the plus-sign button (+) to add a new meeting, and then tap the Start button. Once the session had launched, I was able to invite other attendees and

videoconference from the iPad. However, I couldn't find any way to add or share content from the device. All I could do was pass off the presenter role to someone using a PC so they could share content with the attendees.

Videoconferencing is respectably smooth, but the desktop content you're sharing can be a bit slow to refresh. The presenter has to pause for two or three seconds after changing slides or moving to a new webpage to let iPad attendees catch up.

THE BOTTOM LINE

These three are not the only options available. For one-on-one videoconferences, Apple's FaceTime is an obvious and straightforward choice—but it doesn't work over cellular connections and it requires that both users be connected over a Wi-Fi network. But for bigger meetings, any one of the other three will do the trick. If you're hosting, Fuze Meeting stands out as an impressive platform for online meetings and videoconferencing; it's easy to use and cost effective. The nice thing is that these apps are free, so you can have them all on your iPad just in case.

Tony Bradley writes for PCWorld's BizFeed blog.

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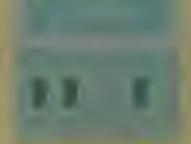
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It seems like ancient history, but it was just six years ago—Macworld Expo 2006, to be precise—that Apple launched what many hailed as the linchpin of its iLife suite: A Web design tool called iWeb joined iPhoto, iMovie, GarageBand, and iDVD. As the newest member of the digital hub, iWeb was the missing link that bound all iLife apps into a single organic unit. Paired with Apple’s networked sharing tools—first .Mac and later MobileMe—this ecosystem provided a quick, painless way to create captivating and complex websites incorporating iLife app elements like text, photos and albums, videos, music, blogs, and podcasts. With a few mouse clicks and some simple configuration, MobileMe put your iWeb site online.

Of course, that's not all MobileMe did. The service provided ad-free, private, and cloud-based access to your email, contacts, online storage, and photo albums, and also provided a way to share and back up your assets. It was a closed garden—maybe not Eden—but many Mac users grew attached to it.

Now both iWeb and MobileMe are going extinct. MobileMe will end on June 30, and users can move to Apple's new, free iCloud, which offers only some of MobileMe's attributes. While iWeb is not going away immediately, its eventual demise is assured: Apple is no longer updating the app and has removed it from the Mac App Store. But from this transition comes a new beginning. The following stories guide you through the steps needed to update your iWeb site and host it with some slick tools.

ILLUSTRATIONS BY ALEX MATHERS



The iWeb Transition

With Apple's Web builder on the way out, take steps now to re-create your site

By Adam Berenstain

It's sad. But it's a fact. With the departure of Apple's MobileMe online service, it's time to think not only of moving your site to a different webhost, but of eventually moving away from Apple's iWeb website builder altogether. All indications point to iWeb's future demise as the Mac OS advances and iWeb doesn't get any upgrades.

During this transition period, remember that switching design tools is

Your choice will hinge on whether you're married to your current site design—or you're willing to shake things up. We suggest shaking things up, because websites, by their nature, should constantly evolve. Like all good publications, sites should be redesigned periodically to leverage new technologies and to enhance visual and contextual interest.

Here are some steps you can take to get started.

Sites should be redesigned periodically to leverage new technologies and to enhance visual and contextual interest.

not urgent. You don't have to make a radical change right away. All you have to do when MobileMe goes away is save your website to a folder and move it to another webhost.

However, now is the time to check out other options. There are many Mac website tools to choose from—both desktop software and online services. Eventually, you'll have to choose one.

able to apply some of the money that you were paying for MobileMe to a new webhost.

Web-based site-building tools are typically free, and they let you construct and edit sites with the service's Flash-based design tools in any modern browser. This means that, although you can't edit your pages on an iOS device, you can view them on your iPhone or iPad either full size or in an optional view that automatically reformats your content for mobile devices. However, most Web-based services can't compare to native apps for flexible WYSIWYG editing and integration with iLife.

The most important step in picking an iWeb replacement is assessing your site's purpose and appearance. Do your pages contain text-heavy blog posts, or do they consist mostly of photo and video galleries? Are the designs from stock Apple templates, or have you heavily tweaked them? Answering such questions will help you choose the right tool. The simpler the site, the easier it is to re-create.

Among Mac applications, casual bloggers should consider Realmac Software's

Choose a New Design Tool

The tool you select will be either a native Mac application, like iWeb, or Web-based software. Most Mac-native apps offer benefits like the familiar look and feel of OS X, local Time Machine backups, and the ability to edit sites offline. You'll have to pay for both the app and site hosting, much as you did with MobileMe; fortunately, you will be



Pick a New Webhost

If you've used MobileMe to host your iWeb site until now, you'll also need to find a new hosting plan. Most plans cost under \$100 a year, depending on storage and monthly bandwidth. If you choose a Mac app for your new site, consider a hosting service suggested by the application's developer. That way the people behind your software and hosting service will be familiar with each other's products.

Karelia Software, for example, recommends A2 Hosting (www.a2hosting.com) for Sandvox sites. Realmac Software suggests Little Oak (www.littleoak.net) for RapidWeaver.

Web-based design tools provide free hosting, but still include pricing tiers based on plan features. Weebly's free plan offers unlimited storage and bandwidth, but it limits uploads of data such as photos to 5MB. Its Pro plan starts at \$27.50 for six months and increases that limit to 100MB. Jimdo's free plan includes 500MB of storage and unlimited bandwidth. Annual paid plans for \$90 and up offer more storage, starting at 5GB.

Replace MobileMe Features

Moving from iWeb to a new design tool means more than just learning new ways

to create and customize websites. Some handy iWeb features you may have relied on—specifically, sitewide password protection, blog and photo comments, blog searching, and the humble hit counter—required MobileMe hosting in order to work. Fortunately, you can get most of those features, even improved ones, by using similar components from your new design tool and host.

While Sandvox doesn't currently offer password protection, Loghoud.com's \$10 Lockdown, a RapidWeaver plug-in, keeps specific pages hidden from public view (loghoud.com/lockdown). It requires that your site host use particular software on its servers, but a free trial lets you try before you buy. Jimdo offers limited password protection with its free plan, but Weebly requires a paid account to password-protect your site.

Sandvox comes closest to implementing iWeb's blog and photo commenting system by letting you add Facebook, Disqus, and IntenseDebate comments to any page—even to individual photos in an image gallery. RapidWeaver supports Disqus commenting, but only on blog pages. Weebly and Jimdo offer similar commenting on their pages. None of these tools offer iWeb's blog-search

RapidWeaver (\$80; www.realmacsoftware.com/rapidweaver). Its iLife-inspired interface is clean and powerful. The blogging tools in Karelia Software's Sandvox (\$80; www.karelia.com/sandvox) aren't as stylish, but its built-in widgets for Twitter, Skype, and IM can turn your blog into a social media hub.

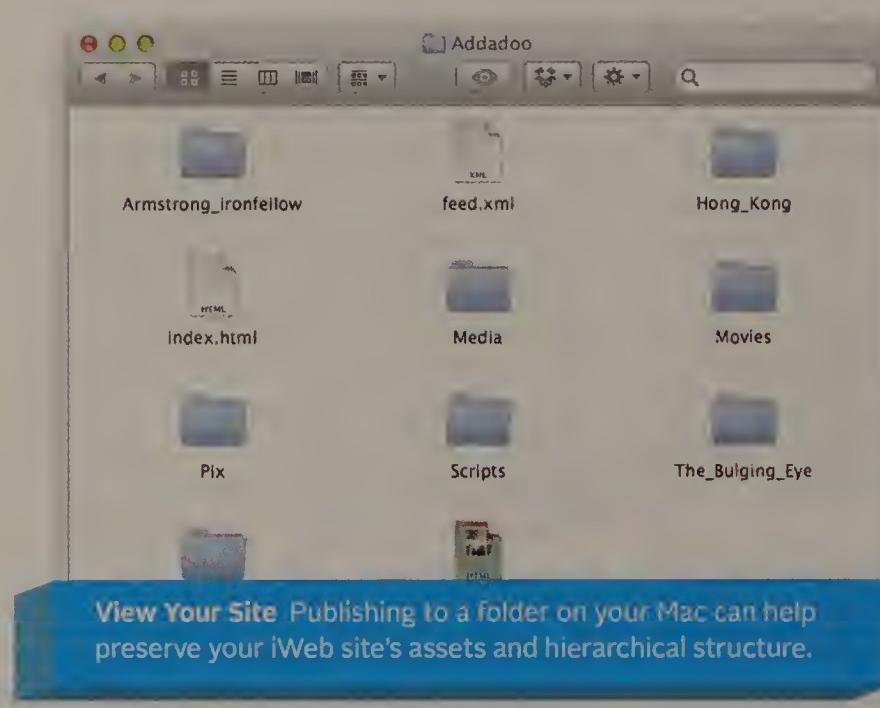
Free Web-based designers like Jimdo (www.jimdo.com) and Weebly (www.weebly.com) also offer robust blogging tools. Posterous Spaces (www.posterous.com), now owned by Twitter, provides free microsite-creation tools and an iPhone app that make blogging on the go a snap.

If you want to create media galleries on your Mac, you'll find RapidWeaver and Sandvox handy thanks to their integration with iLife's media libraries. Jimdo's Dropbox integration lets you turn a folder full of images in the cloud into a photo gallery, but to add videos to your site you'll have to upload them to a service like YouTube first, and then add them to your pages as HTML widgets.

Designers looking to break away from iWeb's themes and templates will appreciate Tumult's Hype (\$50; tumultco.com/hype). This user-friendly tool for creating code-free interactive HTML 5 animations lets you build entire sites from scratch. If templates are a better fit, Weebly's intuitive interface makes it a snap to change your site's look and features.

Free trials of all these tools are available via download or, with Web-based services, as free sign-ups.

Out with the Old In most cases, it's not difficult to take an iWeb site and rebuild it using an app like Sandvox or RapidWeaver.



original locations. They're still available within your iWeb document, however, and you can quickly access them by publishing your site to a folder on your Mac. This adds the benefit of exporting your site's assets in an accessible form in case iWeb doesn't launch or otherwise fails in future versions of OS X.

Select your site in iWeb's sidebar, and then choose Local Folder in the Site Publishing Settings' Publish To menu. Choose a destination and click the Publish Site button. In the resulting folder, you'll find folders named for each photo gallery on your site. Within each gallery folder is a Media folder containing folders for that gallery's pictures. The highest-quality images in them will be named for your photo file. You can find podcast and movie files in your site's Media folder.

Transfer Your iLife Media

No matter what kind of site you've created with iWeb, it probably contains photos, movies, and other media you'll want to transfer to your new site. How you do that will depend on the design tool you've chosen.

If the media files are still in their respective iLife libraries, using a tool with iLife integration will let you access them quickly, much as you did in iWeb. Without iLife integration, you'll have to first export the files to a Finder folder, and then upload them manually to your site. Alternatively, you can upload iLife media to services like YouTube or Flickr, and then add those files to your webpages via an HTML widget. The Share option in iPhoto's or iMovie's menu bar makes this easy.

If you've added media files to your iWeb site from other sources (dragged them in from a Finder folder, for example), you may have since moved them from their

subjective decision you'll have to make for yourself, but some general rules apply. The most important is that you'll have to rebuild your entire site.

Unfortunately, there's no way to export a site from iWeb the way you might save a Pages document as a Word file, but if you've stuck to Apple's themes and templates, your job will be easier.

For example, I chose to reproduce my site in Sandvox, which—like most site design tools—offers blog, gallery, and basic text pages like those in iWeb. Using those pages was a relatively straightforward process of matching page styles with my site's pages, and then filling the new pages with media. Copying text from my old site and pasting it into the new one took a little more effort, but I more or less completed my new site in less than two hours. Your mileage will vary, but the work will be worth it.

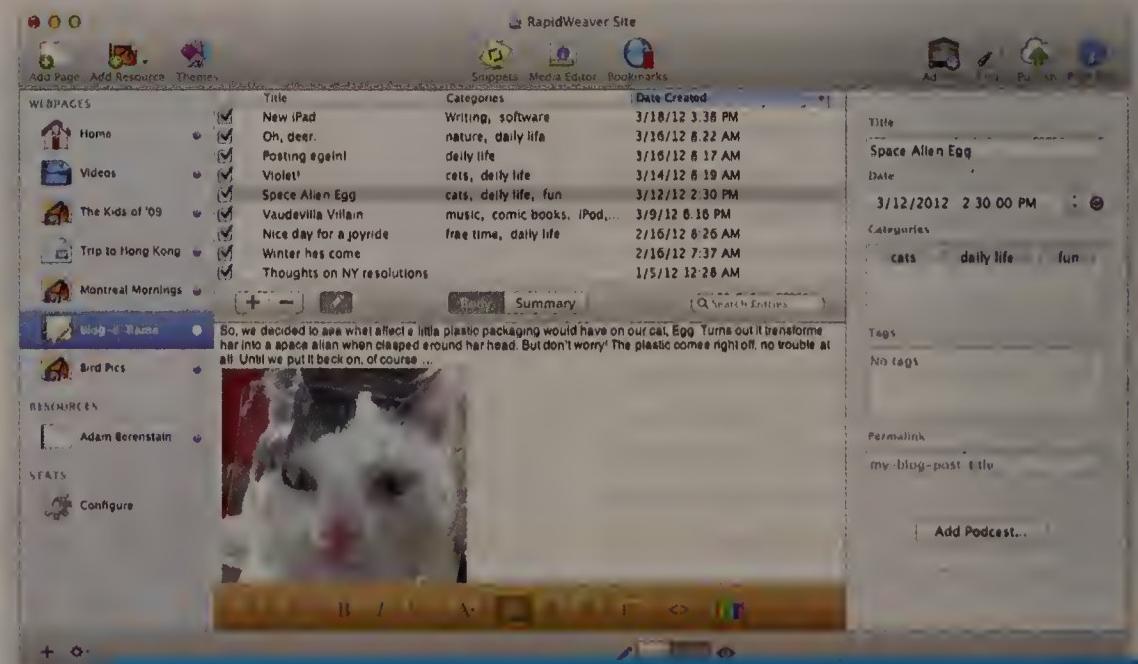
Not only will you learn a new way of creating a website, but you'll get a chance to reconnect with your great content.

No one is thrilled with having to rebuild a website they worked long and hard on to get just right. Fortunately, if you have to rethink your site, the tools available to you can make the process convenient and even fun.

Adam Berenstein is a freelance technology journalist in upstate New York and a frequent contributor to *Macworld*.

Re-create Your iWeb Site

How easy it will be to reproduce your iWeb site ultimately depends on your site and the tool you pick. That's a



Go Native Mac apps like RapidWeaver and Sandvox offer familiar features.

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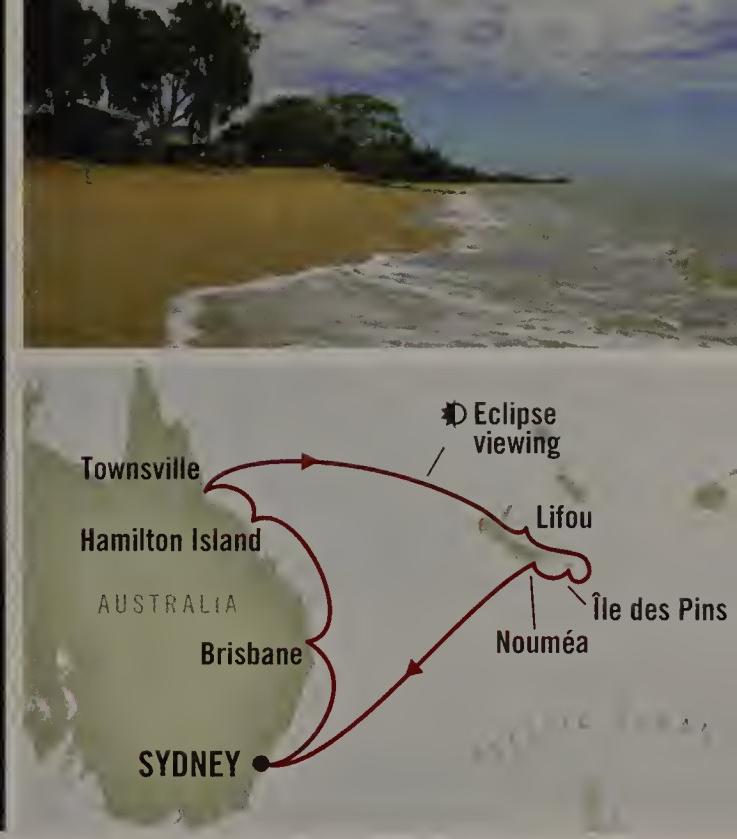
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How to Choose a New Webhost When MobileMe Expires

Plenty of Mac-friendly webhosts are just waiting to welcome your iWeb site

By Joe Kissell

With the demise of MobileMe, many Mac users are looking for new homes for their websites, particularly those created in iWeb. Picking just one from the thousands of hosting companies can be bewildering. Don't panic. Here are a few tips to help you choose a new provider and move your site to its new home.

What to Look For

The type of hosting service most likely to appeal to MobileMe refugees is shared hosting, in which numerous sites and domains share the resources of each physical computer connected to the Internet. It's inexpensive, and, except for high-traffic or mission-critical sites, it's a good all-around choice for most consumers and small businesses.

First, the good news: Finding a "Mac-compatible webhost" is like finding a "food-compatible restaurant." Regardless of the server's operating system,



they all work pretty much the same way. If you're a fairly tech-savvy user and can usually figure things out on your own, you can pick a provider without worrying about how much the company seems to like Macs.

However, if you're a less-sophisticated Mac user, you may feel most comfortable picking a company that understands your specific needs and makes you feel at

home. A Web search for *Mac-friendly webhosting* turns up enough matches to make your head spin, but the working definition of *Mac-friendly* seems to run the gamut from "We run all our Web servers on Macs" to "One of our techs once touched a Mac."

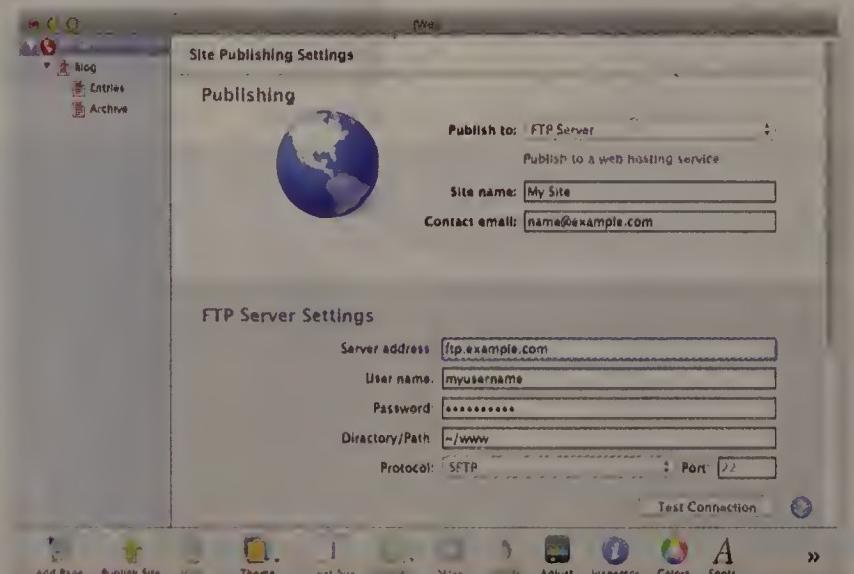
If you visit a provider's website

and see words like *Mac* and *iCloud* on the homepage, or, better yet, read a story about how everyone in the company uses a Mac, you can feel confident that the company has a clue about the Mac OS. If you see no explicit welcome mat on the company's site, visit the support page and do a quick search for *Mac*. Are there more than a few hits? That's a good sign.

Of course, enthusiasm for the Mac doesn't guarantee a good experience. A hosting company with lousy customer service or a poor track record for uptime isn't what you want, regardless of its Mac bona fides. Try doing a Web search for its name plus *opinions* or *reviews* to read about other customers' experiences. (Take a handful of excessively positive or negative reviews with a grain of salt; the truth likely falls somewhere in between.)

Hosting Companies

If you want a few suggestions of companies to consider as a starting point, here are some names. I have personal experience with only the first two, but all are worth a look:



Old Site, New Host You can still use iWeb to build and update your site—for a while. But you need to switch webhosts now.

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The screenshot shows the MacHighway website. At the top, there's a navigation bar with links for Services, WindFarms, Support, Contact, and Sign-Up. A banner headline reads "Is the iCloud going to rain on your iWeb-created site?" with a subtext "Welcome to your new home. We've been hosting the Mac community since 1997." Below this is a large image of a cloud with rain. A promotional offer "Web Hosting starting at \$2.95 a month!" is displayed with a "Click Here for Details" button. On the left, there's a "Find a Domain Name" search bar and a section for "Additional Services" featuring "MacName". On the right, there's a list of "We offer FREE add-on applications such as:" including WordPress, Zen Cart, Magento, Drupal, phpb8, AWSales, CubeCart, osCommerce, Joomla, and 50+ More. A sidebar on the right says "Lots of Choices MacHighway is one of many webhosting companies aiming to pick up the slack from MobileMe."

> For many years, digital.forest has been supporting Macs; at one time, FileMaker hosting was its main claim to fame. Shared Unix hosting plans start at \$9 per month (plus a \$30 setup fee); with more-expensive plans, you can opt to use a Mac or Windows server instead.

> DreamHost is a large and highly regarded nationwide webhost provider with a long list of features, and support technicians who are (mostly) knowledgeable about the Mac OS. Shared hosting starts at \$9

per month (with a two-year prepayment), including unlimited disk space and bandwidth.

> FatCow and HostGator appear to be cut from the same cloth. Both offer unlimited disk space and bandwidth, and both claim to be “green,” buying renewable energy certificates (RECs) to offset their electrical usage with wind power. FatCow has plans starting at \$7 per month (with a three-year prepayment), with lower introductory rates; HostGator’s plans start at \$4 per month (again, for three years up front).

> Little Oak is a small company offering “hosting for Mac users, by Mac users” (albeit on Linux servers) for as little as \$80 per year, which includes 5GB of disk space and 50GB of bandwidth per month. It also guarantees 100 percent uptime.

> MacHighway, like Little Oak, features the slogan “Web hosting for Mac users, by Mac users” (and also uses Linux servers). Its least expensive plan is only \$29 per year (\$2.45 per month, prepaid) and includes 5GB of disk space with unlimited bandwidth. Like FatCow and HostGator, MacHighway buys RECs for “green” wind-powered electricity.

As mentioned in the previous section, “The iWeb Transition,” a good strategy may be to go with the hosting recommendation of the company whose software you’re using, such as A2 Hosting for Sandvox sites or Little Oak for RapidWeaver sites.

Move an iWeb Site

If you were using iWeb to publish your site on MobileMe, you can move it to your new provider easily:

1. Launch iWeb and select your site in the program’s sidebar.
2. From the Publish To pop-up menu, choose FTP Server (instead of choosing MobileMe).
3. In the FTP Server Settings section, choose the specific protocol (FTP with or without TLS/SSL, or SFTP) from the Protocol pop-up menu. Then enter the server address, username, and password (along with any other pertinent details) provided by your new webhost. Click Test Connection to confirm your settings.

4. Enter the URL for your site. (Note that if you were using a custom domain with MobileMe, you must edit the domain’s DNS settings so it points to the new host instead of to web.me.com; your domain registrar can provide instructions for doing this.)
5. Click Publish Site.

Senior Contributor **Joe Kissell** is the senior editor of TidBITS and the author of *Take Control of iCloud* (TidBITS Publishing, 2012; www.takecontrolbooks.com).

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How to Host Your iWeb Site via Dropbox

By Jeffery Battersby

If you use MobileMe, you've no doubt been put on notice that your files, folders, and MobileMe account data are about to vanish into the ether.

While you probably know what to do with your personal files and folders, you may not know exactly what to do with the sites hosted on your MobileMe account. One simple alternative is to move those files to a free Dropbox account. Thanks to Dropbox's ability to let you easily share files online, you can use it to host webpages. While this may not be the most elegant solution, it will work until you find a permanent Web design tool or webhost.

If you used iWeb to create your site, don't just drag and drop your files from your iDisk to your desktop. Instead, use an iWeb feature that lets you publish your site to a local folder. Here's the sequence.

1. Launch iWeb. In the sidebar, select the site you want to publish in Dropbox.
 2. In the publishing section, open the Publish To menu and change it from MobileMe to Local Folder.
 3. Under Folder Location, choose your desktop. Leave the site URL location blank.

Host with Dropbox
Until you find a permanent host to replace MobileMe, Dropbox provides a parking spot.

4. Create a Dropbox account if you don't already have one: Go to Dropbox.com and click the Sign In link on the upper right side of the page. Below the login fields is a link to create an account.

Once you create your account, the Dropbox application starts downloading to your Mac. When the download is complete, launch the app and sign in.

The Dropbox Public folder, which makes it easy to host webpages, is set up so that you can easily give someone a publicly available URL to share files without any special configuration.

5. Locate the Public folder in your Dropbox folder, and then move the iWeb folder on your desktop into the Public folder. Moving files to the Public folder performs a little magic on all the files. For each file, Dropbox automatically creates a publicly available URL. The trick is getting a copy of that URL to share with others. Before you proceed, make sure that the Dropbox application is running: Confirm that you see the Dropbox item in your menu bar.

6. Dropbox only provides public links for files, not folders, so you need to Control-click your website's index.html file, which you want to share a link for; choose Dropbox in the contextual menu that appears; and then select Copy Public Link.

- Paste this link into your Web browser, and voilà—Dropbox is now hosting your iWeb site.

Jeffery Battersby is an Apple Certified Trainer and a regular contributor to *Macworld*. He writes about Macs and more on his blog (www.reyespoint.com).

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Photo by Randall Slavin

WORKING MAC

Tips, Tricks, and Tools to Make You and Your Mac More Productive

Four Ways to Free Up Drive Space

Get back some breathing room with these space-saving tips

BY MACWORLD STAFF

For most of the past decade, many people had more drive space than they knew what to do with. Hard drives got bigger and bigger while prices went lower and lower. So it probably comes as a surprise to realize that your drive may be getting full. The popularity of digital media means that many people are storing huge video files and thousands of photos and music tracks. Also, a growing number of computers are using solid-state drives (SSDs), which, while speedy, offer considerably less capacity than traditional hard drives. Here are four tips that *Macworld* editors use to slim down our own drives.

1: Clear Out Your Downloads

Every time you view a photo or open a PDF in an email message in Apple's Mail, that file gets saved in a folder called Mail Downloads. If you don't receive many attachments, this folder remains relatively small, but if you're a frequent file exchanger, it can quickly siphon away hundreds of megabytes from your drive—much of it for files you've likely already saved somewhere else. Emptying this folder is easy once you know where it is. In the Finder,



from the Web that you no longer need. These files are stored in your main Downloads folder, which is a little bit easier to find—it's sitting directly in your home folder, so you can just open it and start cleaning.—SERENITY CALDWELL

2: Remove Old iOS Crust

If you sync your iPhone, iPad, or iPod touch to your Mac, iTunes is likely still hanging on to older device backups and operating system updates.

One of the best ways to free up room on your Mac is to refrain from storing unneeded files on it in the first place.

choose Go ▶ Go To Folder, type `~/Library/Mail Downloads`, select everything in the folder that appears, and then move the lot to the Trash.

Along those same lines, chances are you've got a bunch of stuff downloaded

To find the old backups, launch iTunes, choose iTunes ▶ Preferences, and then click the Devices icon in the window toolbar. You'll see a list of backups for your various synced iOS devices—likely multiple versions for

each device—along with the date each backup was made. You definitely don't want to delete all of these, but if a particular iOS device has been running smoothly for a while, you can safely keep only the most recent backup.

To do so, select a backup (or ⌘-click to select multiple backups), and then click the Delete Backup button. After you confirm your intentions, iTunes will erase the unneeded backups, freeing up plenty of space. Each of the local backups for my iPhone 4S, for example, weighs in at over 4GB.

While you're reclaiming the disk space that iTunes' behind-the-scenes data has selfishly grabbed, there's one other set of files you can probably remove: old iOS and iPod software updates. iTunes downloads these updates to install them, but it doesn't delete them after installation. Getting rid of them can free up a good amount of space, and if you ever need one again, iTunes can just redown-

load it. In the Finder, choose Go ▶ Go To Folder, paste or type `~/Library/iTunes/`, and then look for folders called iPhone Software Updates, iPad Software Updates, and iPod Software Updates. Delete everything in the folders. On a test computer here, deleting just two iPad updates and a single iPhone update freed up 2.4GB of space.—LEX FRIEDMAN

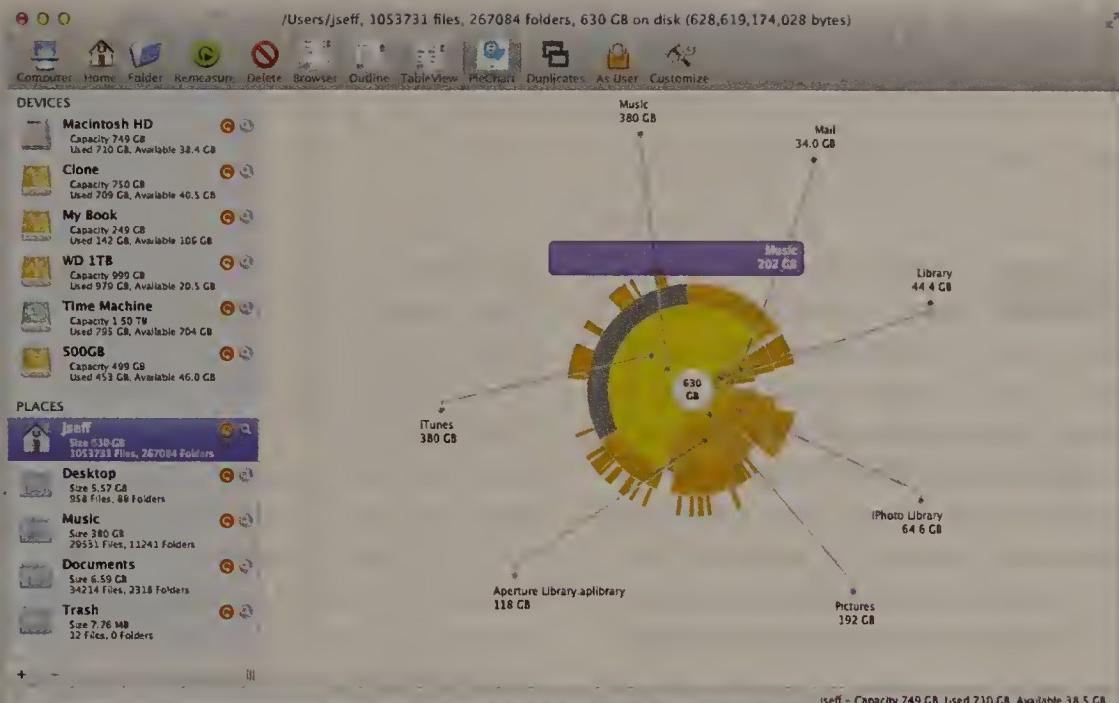
3: Find Other Big Stuff

Among the biggest wasters of drive space are files and folders that you've forgotten about or that have simply ballooned without your knowledge. A variety of utilities can help you find such candidates for deletion; my personal favorite is Id-design's WhatSize (\$13; whatsizemac.com).

Use one of these tools to view your files and folders—and even packages such as iPhoto and Aperture libraries—sorted by size, in a variety of different ways. Doing so makes it easy to identify the largest items on your drive, or even to just get a sense of how much room certain things take up. (Your Steam game library takes up *how many gigabytes*!?)

As an example, I recently used WhatSize to find and remove more than 6GB—not exactly chump change—of GarageBand Jam Pack loops that I'd forgotten I'd installed.

Of course, you want to be careful when removing files from inside `/Library` and `/Users/yourusername/Library`, since deleting the wrong files can cause applications, and even the OS, to misbehave. WhatSize and similar utilities can also slim down applications



Finding the Culprits WhatSize lets you figure out what's monopolizing your drive's space.

by removing PowerPC code or unnecessary language localizations, but I don't recommend doing so; these files don't take up that much room, and removing them can cause problems, such as making it impossible to update certain apps.—JONATHAN SEFF

4: Use Network Storage

One of the best ways to free up room on your Mac is to refrain from storing unneeded files on it in the first place. You can do this with the help of network-attached storage (NAS) devices. Such devices are generally connected to your network via an ethernet cable, although a few can connect via Wi-Fi. You can get NAS-like features from a dedicated NAS drive, a USB hard drive that you've attached to an Apple AirPort

Extreme base station or Apple Time Capsule, or a gadget such as those from Pogoplug (\$50 to \$100; pogoplug.com), which accommodate USB storage devices and let you access them on a local network as well as via the Internet.

What kind of data would you put on one of these devices? If you have a dedicated NAS drive, your iTunes library is a good place to start, as it can take up a lot of space—such a setup can even let you play the contents of that iTunes library from any computer you own, thus turning the NAS into a music server. You can also offload any files that you don't need to take with you when traveling, such as older iMovie projects or big folders of older documents. Just be sure to back up important data somewhere else too.—CHRISTOPHER BREEN

Incipio's Weekender Nylon Travel Bag

Traveling has gotten quite a bit less convenient over the past decade, especially if you're packing gadgets. To ease the hassle, Incipio's \$130 Weekender Nylon Travel Bag (incipio.com) is designed with your MacBook, iPad, and phone in mind. You can use the Weekender as a briefcase-style bag, a messenger bag, or a backpack—but it has the soul of a piece of carry-on luggage. Its main compartment stores your clothes and other traveling needs, while a separate exterior compartment fits a padded removable sleeve designed to fit laptops up to 17 inches in size. A smaller zippered compartment on the top fits an iPad and other small items, and a media pocket near the handle welcomes your iPhone. Choose from royal blue, red, gunmetal, and basic black.—DAVID CHARTIER



How to Send Group Emails with Mail

Frequently asked questions about addressing email messages to multiple people more quickly

BY CHRISTOPHER BREEN

Q&A

The world can be a tedious place, but it doesn't always have to be. Take adding multiple recipients to a single email message, for example. Of course you can add each recipient, one address at a time. But doing so is about as interesting (and necessary) as watching paint dry. With the power of address groups, you can quickly add many recipients in one go.

Q: I don't see a groups feature in Mail. Where can I find it?

A: Apple's Mail doesn't contain its own contact manager. When working with groups, you start with Apple's Address Book (in /Applications).

By default, in Lion's version of Address Book, you see an All Contacts page to the left and all your contacts listed to the right.

To create a group, click on the red Group bookmark at the top of Address Book's left page. This flips a page back so that you can view the Groups page.

Click the plus-sign button (+) at the bottom left corner of the Address Book window. Address Book creates a new group called Untitled Group. Name the group and press Return.

Now select the All Contacts entry at the top of the group list to expose your contacts. Drag any ones that belong to your softball team, for instance, into your new group. When you do, you'll see an icon that looks like a small note card with

a red circle showing the number of contacts you've selected. These contacts are now part of your group. They remain part of the All Contacts group too.

Q: Are there any easier ways to make a group?

A: If you routinely send messages to, say, all the people you work with, a smart group may be able to help you. In Address Book, choose File ▶ New Smart Group and, in the sheet that appears, enter a name for the group—'Coworkers,' for instance. In the field below, configure the entry to read Email Contains *domainname*, where *domainname* is your company's email domain.

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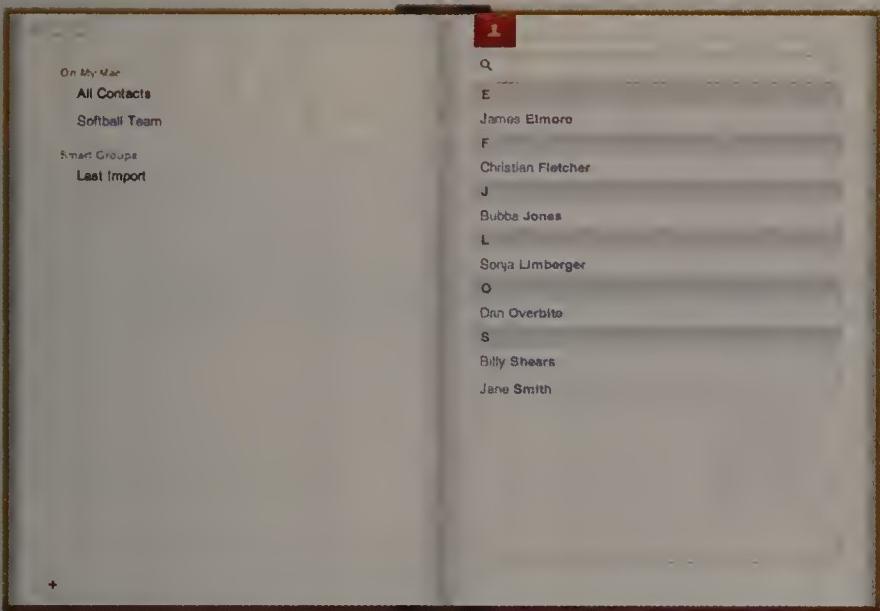


Games

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Health & Fitness



Make a Group
Create a group in Address Book so that you can use it when you're composing messages in Mail. Here, I've created one for the members of my softball team.

In my case, I'd enter **macworld.com**. That group will contain all contacts with an email address at macworld.com. Use smart groups for a variety of things—contacts that live in a certain zip code or that use a specific area code, or people whom you've tagged with a note or who share a birthday.

Q: If my contacts have more than one email address, can I choose which one the group uses?

A: Yes, you do this using Address Book's Distribution List feature. In Address Book, choose Edit ▶ Edit Distribution List. In the window that

appears, select your group and check the names that appear to the right. Some have more than one email address; simply click on the addresses you want.

Note that if you manage your contacts only with iCloud, the Edit Distribution List option may be grayed out. For a workaround, see the extended answer to this question at macworld.com/a/1165582.

Q: Once I make a group in Address Book, how do I use it in Mail?

A: Now that you've created the groups you need, launch Mail and create a new message. In the To field, start typing the name of one of your groups. As you do, Mail presents a list of contacts and groups that match your query. Select the group name you want and press Return. By default, Mail adds all the recipients that belong to that group.

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BODYGUARDZ THE ULTIMATE DEVICE PROTECTION

FileMaker Pro 12

Themes, file-management tools lead the list of changes in this database software update

BY WILLIAM PORTER

REVIEW

FileMaker extends its dominance in the realm of Mac OS and iOS databases by offering improvements that every type of FileMaker user will appreciate.

Themes Include iOS Integration

The most obvious improvement to FileMaker Pro 12 is its new library containing 40 fresh layout themes. A theme controls the appearance of objects on a layout: the color scheme, the shape and style of buttons, and the text formatting and borders of data fields. Not only are the new themes attractive, but you can now also switch themes after the fact—a quick way to perform a face-lift on your databases. Unfortunately, you can't define and save custom themes.

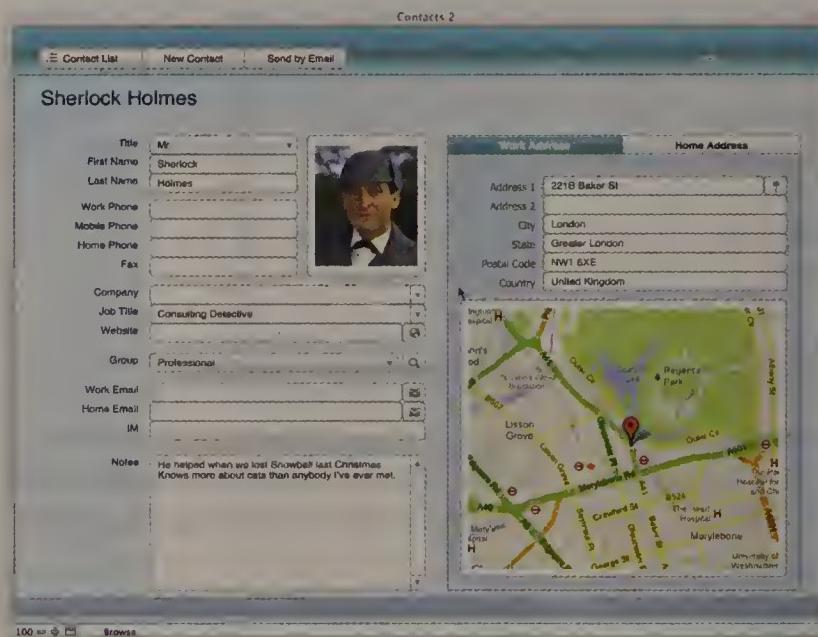
Interoperability with FileMaker Go, FileMaker's database app for the iPad and iPhone, is also an exciting part of the release, and with the many new themes for iOS, it's easy to create attractive apps for the iPad and iPhone (read a brief review in *iOS Central's App Guide*, page 30).

Growing Pains

Two other changes in layout mode may seem awkward to experienced developers. FileMaker Pro 12 layouts now have explicit widths and are designed to be used within windows of a certain size. This change is

Pro Versus Pro Advanced

In a nutshell, FileMaker Pro (\$299) and FileMaker Pro Advanced (\$499) are 95 percent identical, but Pro Advanced provides a few crucial extras such as script debugging, custom and menu functions, and more. Pro Advanced is for serious developers, especially those who do a great deal of scripting. Everything in this review applies equally to FileMaker Pro Advanced 12.



part of FileMaker Pro 12's better support for different types of displays and is complemented by the new screen-size guides, or Screen Stencils, that make it easy to tell if a layout will fit on a particular screen.

As a longtime FileMaker developer, I found it difficult to adjust to the new way of selecting objects in layout mode. In the past, you drew the selection rectangle completely around the object (say, a field, a field label, or a button) to select it. In FileMaker Pro 12, objects are selected if the selection rectangle touches any part of the object. The new behavior makes it more difficult to select one object in a crowded group. Fortunately, when you really need it, you can recover the old behavior by holding down the ⌘ key while selecting.

FileMaker Pro for Amateurs

What about the database amateur? Not to worry. To make things easier from the get-go, FileMaker offers 16 diverse, professionally designed databases for handling inventory, to-do lists, personnel, scheduling, time and billing, research notes, and more.

These easy-to-tweak Starter Solutions include layouts optimized for FileMaker Go on iOS devices, as well as layouts for FileMaker Pro.

Fresh and iPhone-Friendly This Starter Solution uses a theme called River and includes layouts optimized for the iPhone. The starter database includes scripting that automatically takes users to layouts appropriate for the platform on which they'll be viewed.

What's the Catch?

If you want to use an old database in the new version of FileMaker Pro, you'll have to convert the file to FileMaker's new format, which has the file extension *fmp12*. If you work by yourself, by all means go ahead and upgrade. But if you share your databases—whether with 100 other users or even just one—be aware that every computer that will access the file must be upgraded to FileMaker Pro 12. iOS users of FileMaker Go will have to upgrade to FileMaker Go 12. And if you're sharing the files with FileMaker Server, you'll have to upgrade that software to the newest version too.

Macworld's Buying Advice

This is the best version of FileMaker Pro yet. If you are one of the millions of people already using FileMaker Pro, the only reason not to upgrade immediately is the change in file format.

William Porter is an independent software developer, writer, and event photographer.

★★★★★; \$299; FileMaker; www.filemaker.com

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REVIEWS

Hardware and Software for
All Your Business Needs

HARDWARE

Epson WorkForce 845 △

The Epson WorkForce 845 color inkjet multifunction printer has a lot going for it. In particular, its above-average capacity and paper handling, top-notch performance, and very good output will nicely fulfill the needs of a small office or home office. In our tests, text at default settings printed at 11.3 ppm—far faster than the average. Printing letter-size glossy photos proceeded at a middling 0.4 ppm, and scan times were about average. At standard settings, text looks black and sharp. When you choose the slower fine mode, the results are nearly laserlike. Color graphics printed on plain paper are exceptionally accurate, and closer than usual to the quality of their glossy-paper counterparts. The WorkForce 845 ships with Epson's extra-high-capacity ink cartridges (model 127); few inkjets come standard with cartridges that offer anywhere near as many pages. We recommend that you replace spent cartridges with the same extra-high-capacity tanks. The costs work out to 3.1 cents per page and 2.7 cents per page per color, or an economical 11.3 cents for a four-color page. All told, the Epson WorkForce 845 is a bargain for a small-office MFP.

4½; \$200; Epson;
www.epson.com



Hitachi Touro Mobile Pro △

The Hitachi Touro Mobile Pro is a great-looking portable hard drive that offers fast transfer rates and online storage. The device looks like a



slightly oversize iPhone 4S, with a black reflective surface on the front and back, and a gray frame surrounding the edge. The 7200-rpm hard drive comes with a USB 3.0 cable, which you can also attach to a USB 2.0 port. Access 3GB of free online backup storage by installing the included Hitachi Backup software. By default, the software backs up your system's Users folder to the cloud, but you can change which folders you want saved, modify the backup schedule, limit how many versions of a file to save, and change how much bandwidth the program uses. We tested the 750GB (\$130) model. After we reformatted it to the Mac-compatible HFS+ Journaled format, we put it through its paces. In our USB 2.0 2GB file write and read tests and AJA system read test, the drive came within 0.5 MBps or less of our speed records. In our AJA system write test, it had the fastest recorded USB 2.0 rates. If you need a handy portable drive that fits aesthetically with your mobile iOS device, Hitachi's Touro Mobile Pro is a great choice.

4½; \$130; Hitachi; www.touropro.com

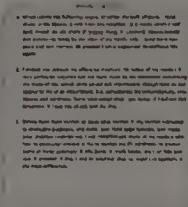
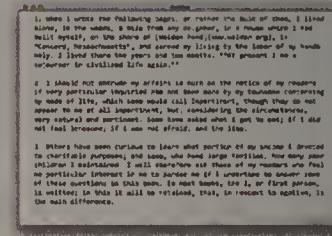


Western Digital My Passport Studio 1TB △

Western Digital's latest My Passport Studio has a solid build and multiple connections, but its slow transfer speeds hamstring an otherwise decent drive. The My Passport Studio is made from anodized aluminum with a black case and silver edges, giving it both a durable build and a professional look. The drive weighs three-quarters of a pound, which doesn't sound like a lot, but it feels sturdy when you hold it in your hand. The drive has a USB 2.0 port and two FireWire 800 ports, and features a tiny activity light.

We tested the 1TB version, but Western Digital sells a 500GB version for \$160, a 750GB drive for \$180, and a 2TB version for \$300. In every test we conducted, the My Passport Studio's USB 2.0 transfer speeds were a bit slow compared to similar drives. The drive fared slightly better over FireWire 800. Compared to other FireWire portable drives we've tested, the transfer rates were more middle-of-the-road, and its sluggish Photoshop time didn't surpass the performance of those drives. That's too bad, since the drive is marketed to creative professionals, who generally need as much speed as they can get for their projects.

3½; \$200; Western Digital;
www.wdc.com



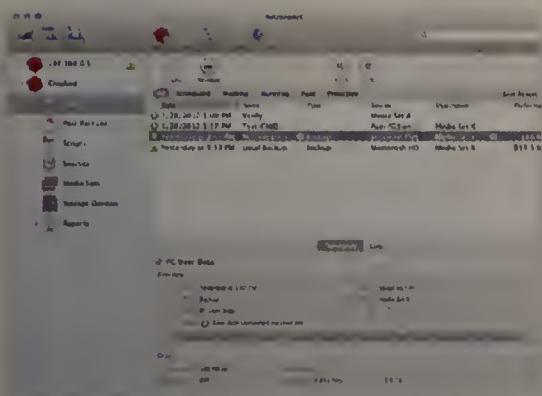
SOFTWARE

Clean Writer Pro △

CognitiveBits' Clean Writer Pro is a \$1 text editor that offers support for plain text, Markdown, and Rich Text Format (RTF). Like many other editors of this type, it's simple and offers limited formatting options, freeing writers to focus on writing rather than formatting. The program is a hybrid of a basic RTF editor such asTextEdit and a text-only Markdown editor. (Markdown is a simple markup language that lets you convert plain text to HTML.) While Clean Writer Pro can save RTF files, you must apply any styling—such as bold or italics—using Markdown tags. It also offers a live preview window for viewing Markdown-formatted text as it would appear when rendered as HTML. A number of options take it beyond the typical text editor. You can use smart quotes and em dashes, for example, and the program offers such adjustments as line height and first-line-

of-paragraph indent—features normally found in word processors. The program does have some rough edges: To tweak a theme, you must use Terminal. Also, you can't change the typeface or font size of preview windows.

 \$1; CognitiveBits;
www.cognitivebits.com



Retrospect 9.0 △

Retrospect 9.0 is designed to fill the gap between personal backup products such as Time Machine and enterprise-grade software that protects servers and workstations by the thousands. A server running Retrospect can manage backups for 20 computers (more if you buy the unlimited version)—including clients running virtual operating systems, such as Parallels Desktop. Stash the backup server out of the way and manage everything from any workstation on the network; you can even monitor backups from an iPhone or iPad, using Retrospect's iOS app. Actual backups are performed by scripts—sets of instructions that tell Retrospect what to back up, where to save it, and when to do it. Writing these requires no programming, but Retrospect's graphical interface can be confusing. Retrospect is incredibly efficient at optimizing data storage; if ten computers on the network all have a copy of the same file, Retrospect just backs it up once. When restoring a folder to a previous point in time, the program compares the current state of that folder to the backup and restores only the files that differ. It may take a system administrator to see its beauty, but even the boss will appreciate Retrospect's value. No other product offers these capabilities in a multiplatform setting for such a low price.

 single-server edition, \$479; Retrospect;
retrospect.com

Top Products YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



HARD DRIVES

Desktop

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
AV Drive www.caldigit.com		\$189 (1TB)	USB 3.0	6757
iT1 Dock www.istoragepro.com		\$329 (2TB)	quad interface	5843
SoloPro (pictured) www.iosafe.com		\$312 (1TB)	USB 2.0 and 3.0	7136



HARD DRIVES

Portable

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
G-RAID with Thunderbolt (pictured) www.g-technology.com		\$380 (8TB)	single interface	7773
ioSafe Rugged Portable SSD www.iosafe.com		\$525 (120GB)	single interface	7559
My Passport Essential www.wdc.com		\$110 (500GB)	single interface	7521



INPUT DEVICES

Keyboards, Mice, Pen Tablets

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Intuos5 Pen Tablet intuos.wacom.com		\$349	pen tablet	7695
Magic Trackpad www.apple.com		\$55	trackpad	6436
Wireless Solar Keyboard K750 (pictured) www.logitech.com		\$60	keyboard	7560



PRINTERS

Laser

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
513Ocdn (pictured) www.dell.com		\$1100	LED, color	6009
C544DN www.lexmark.com		\$329	LED, color	4356
Color LaserJet CP2025dn www.hp.com		\$450	LED, color	4823



PRINTERS

Multifunction

PRODUCT	RATING	PRICE ^A	TYPE	FIND CODE ^B
Color LaserJet CM1312nfi www.hp.com		\$350	laser	5183
OfficeEdge Pro5500 (pictured) www.lexmark.com		\$383	inkjet	7694
Pixma MG6120 www.usa.canon.com		\$154	inkjet	7254

^A All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ^B In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

PLAYLIST

Everything You Need to Know about iPods, iTunes, and Mac-based Entertainment

Rip Smarter, Rip Better

Create custom HandBrake presets to target your specific devices

BY JONATHAN SEFF

HandBrake is a great app for ripping your DVD collection as well as converting other files on your hard drive to, say, iOS-friendly formats (handbrake.fr). And to make things easier for users, the software offers a number of built-in presets, including a bunch for Apple devices.

However, when new devices come out, it can take quite a while for new presets to appear. The third-generation iPad and third-generation Apple TV, for example, now support 1080p video playback, but HandBrake's current iPad and Apple TV presets were designed for older models, and therefore won't produce the best-quality video for your new devices.

Luckily, creating your own presets in HandBrake is easy if you know a few simple tricks. In this example, I'll show you how to create one for encoding at up to 1080p resolution. (Of course, your source material needs to be 1080p as well, so this preset won't make any difference for standard-resolution DVDs. And HandBrake can't rip Blu-ray discs, although it can transcode those that are

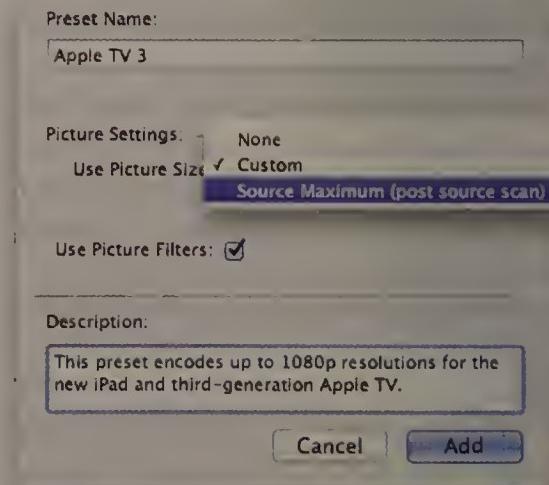


Preview Click the Preview Window button to see what your video will look like and what its dimensions will be after you're done encoding it.

Brake recognizes. Next, click Toggle Presets in HandBrake's toolbar to see the various built-in presets, and then click the disclosure triangle next to Devices. Among the other iOS offerings, you should see an AppleTV 2 preset—select it to load the preset's settings. If

this preset produces the best default videos for newer Apple hardware.)

After selecting the preset, click the plus-sign button (+) at the bottom of the Presets Drawer to create a new preset. In

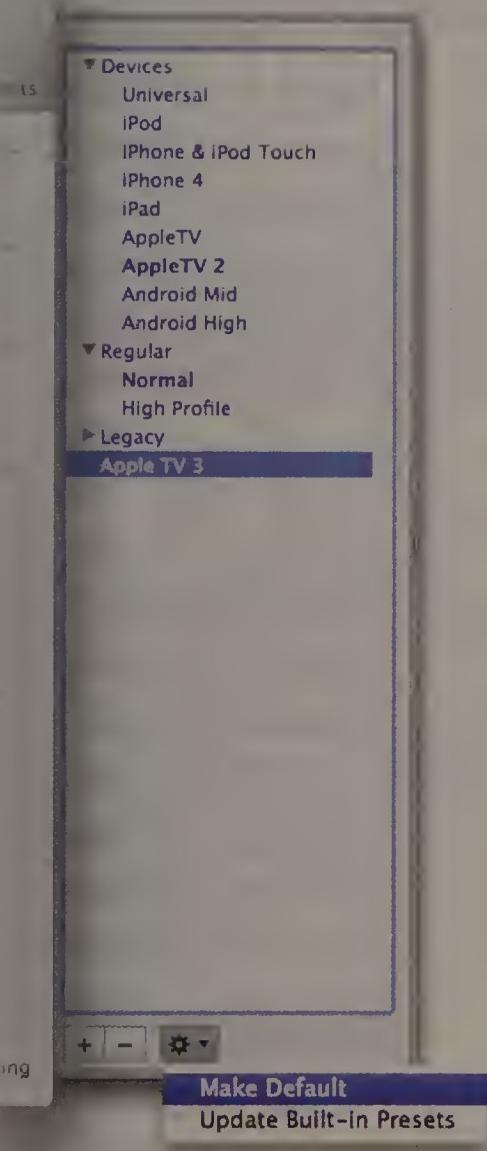


Create and Save Creating a custom preset in HandBrake can save you lots of time when encoding videos.

ripped using software such as MakeMKV (macworld.com/a/1145794). But you can also use this method to create tweaked versions of built-in presets for whatever your specific needs are.

First, you'll need to choose a source file (HandBrake won't let you select or edit presets otherwise). You can choose pretty much any video file that Hand-

you don't see the preset, you may need to update your list by clicking the gear icon at the bottom of the presets pane, and then choosing Update Built-in Presets. (The reason you select the AppleTV 2 preset as the foundation for your preset is that HandBrake bases your custom preset on the settings of whichever built-in one you select, and



Set the Default Make your new preset HandBrake's default with a quick click.

the Preset Name field, enter a name for your preset. From the Use Picture Size pop-up menu, choose Source Maximum (Post Source Scan). Select whether you want to use HandBrake's picture filters (for removing noise or interlacing, for example). Enter an optional description, and then click Add. You see your new preset at the bottom of the preset list, in black type as opposed to the blue used for built-in presets.

If you'd then like to set this as your default preset for all new video encoding, just select it in the drawer, click the gear icon, and choose Make Default from the pop-up menu. Your preset now appears in bold.

The beauty of your new preset is that it creates the highest-resolution video files for your new Apple devices based on whatever video you feed it. So 1080p video stays at 1080p, but if you're

converting a 720p video, the preset recognizes the resolution that HandBrake discovered when scanning the video file and outputs the video at 720p (rather than, say, attempting to upscale it).

If you want even more control over the default settings, you can tweak the original preset *before* clicking the plus-sign button. For example, if you want to adjust the *anamorphic* settings—how HandBrake encodes a movie's display size, along with instructions on how your player should stretch the movie out when you watch it—you can do that in the Picture Settings window. (The HandBrake site includes some detailed information about anamorphic settings in its online user guide at macworld.com/7782, although it cautions that the info hasn't been updated for HandBrake 0.9.6, the current version when this story was published.)

Or you might want to alter the video's constant quality settings (in the Video tab of the main HandBrake interface), or even change to a set average bit rate and two-pass encoding. Note that the presets don't store subtitle and selected audio language settings, although the app's preferences have a Native Language pop-up that you can set and that the program will always attempt to use as a default.

Armed with this information, you can create one or more presets in HandBrake that fit other specific needs—quality and size settings suited to watching videos on your space-constrained 16GB iPhone, for instance. When you're done, select Presets ▶ Export from HandBrake's menu bar to save your presets so that you can use them on another Mac without having to re-create them from scratch.

[Editor's note: The MPAA and most media companies argue that you can't legally copy or convert commercial DVDs for any reason. We (and others) think that, if you own a DVD, you should be able to override its copy protection to make a backup copy or to convert its content for viewing on other devices. Currently, the law isn't entirely clear one way or the other. So our advice is: If you don't own it, don't do it. If you do own it, think before you rip.]

Netflix Boss Blasts Comcast

BY DANIEL IONESCU



Netflix CEO Reed Hastings recently blasted Comcast, alleging unfair implementation of Net neutrality principles when it comes to bandwidth caps for its Xfinity Internet service.

The Netflix CEO's attack came after he said he spent a weekend using video-streaming apps, namely Netflix, HBO Go, Xfinity, and Hulu, when he noticed something: "When I watch video on my Xbox from three of these four apps, it counts against my Comcast Internet [bandwidth] cap. When I watch through Comcast's Xfinity app, however, it does not count against my Comcast Internet cap."

Hastings posted his beef on Facebook to his 120,000 subscribers (macworld.com/7768). Hastings called for Comcast to "apply caps equally, or not at all."

He detailed that "if I watch last night's SNL [Saturday Night Live] episode on my Xbox through the Hulu app, it eats up about one gigabyte of my cap, but if I watch that same episode through the Xfinity Xbox app, it doesn't use up my cap at all. The same device, the same IP address, the same Wi-Fi, the same Internet connection."

"In what way is this neutral?" he asked. The short answer is that it's probably not. By exempting the Xfinity On Demand TV service for the Xbox 360 from periodic data caps, Comcast is effectively giving an advantage to its own service over others, such as Netflix, whose streaming video counts against your 250GB monthly cap.

However, Comcast has a strong defense of its own: The service is delivered via its own private IP network, and not over the public part of the Internet.

Ask the iTunes Guy: Compression and Lossless Encoding

BY KIRK McELHEARN

Q&A

File compression—and what file types iTunes works with—can be confusing. In this installment, I answer your questions about lossless audio compression and file formats.

Q: Sorry to be such a dummy, but can you define ‘lossless’ for me?

A: Lossless file compression is a technique that reduces the amount of space a file occupies without changing any of its contents. If you create an Apple Lossless audio file from an uncompressed AIFF or WAV file (from a CD, for example), the song file is typically 50 percent to 60 percent the size of the original, yet when you play the song back, you enjoy every bit of data from the original. Lossy compression—including formats such as MP3 and AAC—actually removes musical data to save even more space.

Q: Now that iTunes offers the ability to convert lossless files to 128-, 192-, or 256-kbps AAC files, how do I merge my lossless and lower-bit-rate iTunes libraries so that I don’t end up with two copies of each track instead of just the lossless versions when I have duplicates of the same tracks?

A: To simply merge your libraries (understanding that you’ll lose play counts, last-played dates, and ratings), navigate in the Finder to the folder containing the lossless files and drag that folder into the iTunes music interface. After you’ve added all your music to the same library, click the Music library icon in the iTunes source list, and then make sure you have the Kind column visible (under View ▶ View Options, select Kind).

Name	Artist	Album	Time	Bit Rate
I Looked Away	Derek and The Dominos	Layla And Other Assorted...	3:05	256
I Looked Away	Derek and The Dominos	Layla And Other Assorted...	3:06	256
Yellow	Coldplay	Parachutes	4:29	256
Yellow	Coldplay	Parachutes	4:29	256
Bell Bottom Blues	Derek and The Dominos	Layla And Other Assorted...	5:04	256
Bell Bottom Blues	Derek and The Dominos	Layla And Other Assorted...	5:02	256
Speech. John	The Beatles	Anthology 1 [Disc 1]	0:12	192
Speech. John	The Beatles	Anthology 1 [Disc 1]	0:10	192
Anyone Can Play Guitar (live)	Radiohead	Towering Above The Rest	3:36	192
Anyone Can Play Guitar (live)	Radiohead	Towering Above The Rest	3:36	192
Tiny (Internet Bonus Track)	Phish	Und...		
Tiny (Internet Bonus Track)	Phish	Layl...		
Thorn Tree In The Garden	Derek and The Dominos	Layl...		
Thorn Tree In The Garden	Derek and The Dominos	Tow...		
Creep (live)	Radiohead	Tow...		
Creep (live)	Radiohead	The...		
Son de la Loma	Tito Puente & Tito Puente...	The...		
Son de la Loma	Tito Puente & Tito Puente...	Ray Bolger & Sy Oliver		
Once In Love With Amy (US)	Ray Bolger & Sy Oliver	Ray Bolger & Sy Oliver		
Once In Love With Amy (US)	Ray Bolger & Sy Oliver	Cent...		

Dupe Detector Dupin Lite helps you find duplicate files much more easily than iTunes’ built-in tool does.

Next, choose File ▶ Display Duplicates; iTunes shows a list of tracks in your library that it believes are duplicates. Look at each pair; once you’ve satisfied yourself that iTunes has identified them accurately, click the Kind column header to sort the list by file type. You want to keep the ones with the kind ‘Apple Lossless audio file’ and delete their lossy counterparts.

If you’re not satisfied with iTunes’ accuracy in identifying duplicates, you may want to turn to Doug Adams’ \$8 Dupin Lite (available exclusively at the Mac App Store; macworld.com/7769), which gives you much better control over finding and zapping dups.

Q: If I rip a CD using the iTunes AAC encoder and later convert those tracks to Apple Lossless, there will be absolutely no boost in sound quality, right?

A: Right. You can’t improve the quality of a track you’ve already ripped. On the other hand, if you have Apple Lossless files in your iTunes library and set your import settings to AAC, you could easily convert them from lossless files to lossy AAC files.

Q: I’ve been converting the 24-bit FLAC files I purchase to 24-bit Apple Lossless, because I prefer to use iTunes for playback since I can stream it around the house and control it from my iOS devices. Do these files lose any quality when I convert them?

A: No, converting from one lossless format to another retains the full quality. However, you should make sure that you have specified the appropriate setting in the Audio MIDI Setup application (you’ll find it in the Utilities folder in Applications). You need to set your output to the appropriate sample rate (most likely 96,000 Hz) and bit rate; otherwise your Mac won’t play the files as high-resolution audio.

Senior Contributor **Kirk McElhearn** (www.mcelhearn.com) is the author of *Take Control of iTunes 10: The FAQ*, second edition (Tidbits Publishing, 2012). Have questions for him? Send them to itunesguy@macworld.com.

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Edition

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REVIEWS

Home Entertainment Hardware,
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HARDWARE

Behringer U-Phono UFO202 ▾

If you're still hanging on to your old LPs and you want to digitize those records, Behringer offers an inexpensive way to do it—the U-Phono UFO202 USB audio interface. The U-Phono is a compact plastic USB audio converter that contains a phono preamp for digitizing LPs (which means it'll work with any record player) and supports 44.1- and 48-kHz stereo audio at 16-bit resolution. It can also capture line-level signals—from a cassette deck or recorder, for example. The U-Phono is powered via your computer's USB port, so no external power supply is necessary. In addition to working with your Mac, it can work with an iPad 2 and a third-generation iPad via Apple's \$29 iPad Camera Connection Kit. The U-Phono by itself is OK but not great. It doesn't have a volume gain option to allow you to increase the volume when connecting it directly to a turntable, which means you must rely on the quality of its input gain. Regrettably, the U-Phono doesn't have good input gain—in our tests it was too low. For line-level captures, good input similarly relies on how "hot" (how strong) the output from your player is.

3½; \$34; Behringer; www.behringer.com

Onkyo SBX-300 iOnly Bass Dock Music System ▾

Onkyo's SBX-300 iOnly Bass Dock Music System is a speaker dock that works with any iOS device, including all models of the iPad, iPhone, and iPod touch, as well as the iPod classic and the second-generation or later iPod nano. The SBX-300 is shaped like an all-black triangular prism and sports an integrated aluminum handle and base, plastic

sides, and a cloth grill covering the speakers. The unit's Super Bass technology boosts low-frequency audio to add a substantial amount of bass presence. Without Super Bass enabled, the SBX-300 lacks oomph. With it enabled, especially at level 2, the bass can sound a bit overwhelming—and sometimes distorted. Sticking with level 1 is a good compromise. In my testing the proprietary always-on Active Bass Control feature did a good job of boosting bass presence at lower volumes. Although Onkyo says the price is \$249, it currently sells the unit for \$199 on its website, and you can find the SBX-300 online elsewhere (Amazon, for instance) for about \$150.

3½; \$249; Onkyo; www.onkyousa.com

Scosche IEM856md In Ear Monitors ▾

At a list price of \$250, Scosche's IEM856md doesn't come cheap, but for that price, you get a canalbud headset that offers impressive, well-balanced sound with no glaring weaknesses. And the substantially lower street prices we've seen—\$136 on Amazon at the time of publication—make the IEM856md a potentially great value. Furthermore, you get some of the most impressive-sounding bass we've heard at or below this price point. While Shure's similarly priced SE315 may improve upon the IEM856md's accuracy, you'd be hard-pressed to get both the SE315's accuracy and the IEM856md's dynamic bass without spending more. Although the headset's ergonomics leave something to be desired, its sound is satisfying and enjoyable. (The white IEM856m is identical in all but color.)

3½; \$250; Scosche Industries; www.scosche.com



iPods: Current Lineup

PRODUCT	SPECS	RATING	PRICE*	DISPLAY	PERFORMANCE	FIND CODE #
iPod Classic	160GB		\$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	5262
iPod Touch	8GB		\$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB		\$299	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
	64GB		\$399	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6555
iPod Nano	8GB		\$129	1.5-inch color	24 hours of music playback; 5 hours of video playback	6551
	16GB		\$149	1.5-inch color	24 hours of music playback; 5 hours of video playback	6552
iPod Shuffle	2GB		\$49	none	15 hours of music playback	6550

* All prices are Apple's prices. * In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

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HOT STUFF

What We're Raving about This Month



Barnes & Noble Nook Simple Touch with GlowLight

With its \$139 Nook Simple Touch with GlowLight, Barnes & Noble steps up to the plate with one of the very few features that standard E Ink e-readers have lacked for too long. The new version of the reader gains an LED light so you can easily read the E Ink screen in dark environments, like a darkened bedroom or airplane, without needing an annoying overhead light. This isn't the first time we've seen an integrated light in an e-reader: Sony tried it four years ago, with its Reader PRS-700; but even at its brightest setting, the light on that model barely reached the center of the page. The LED here is inside the Nook's bezel, at the top of the 600-by-800-pixel 6-inch display, and the lights shine down on the display, creating an evenly lit surface. The Nook's display now also has an antiglare coating, which helps mitigate any glare from the light (www.barnesandnoble.com).—MELISSA J. PERENSON

Yamaha RX-V573 and RX-V473

AirPlay—which lets you stream audio from any iOS device or from iTunes on your computer—is slowly finding its way into home-theater receivers. Yamaha's \$450 RX-V473 and \$550 RX-V573 are the latest to join the AirPlay party—the former in a 5.1-channel version, and the latter offering full 7.1-channel audio. Both models feature multiple amplifiers, HDMI switching, built-in audio decoding, automatic audio calibration, and more. But these two new models also offer direct connectivity and charging for iPads, iPhones, and iPods (including on-screen display of track information), as well as network control of the receiver from any iOS device using a free Yamaha app. The speakers also have a low-power Eco feature that reduces standby power consumption (usa.yamaha.com).—DAN FRAKES



Logitech UE Air Speaker

Logitech's \$400 UE Air Speaker is an AirPlay wireless speaker that includes a dock for your iPhone, iPod, or iPad. Dock your iOS device, download an app, and follow the on-screen instructions to get everything humming. After that, you can stream audio from your iOS device or iTunes-running computer to the sleek, curved black speaker. Or dock your device to charge it during playback, as well as play music from non-iOS iPods (www.logitech.com).—JONATHAN SEFF

iTunes 10.6.1

 New versions of software often bring new problems. Apple recently released iTunes 10.6.1 to address several problems introduced in iTunes 10.6—and that's good news. For one thing, the update offers fixes for glitches that may cause iTunes to unexpectedly quit when you're playing videos, changing artwork size in Grid view, and syncing photos to devices. For me, however, the most welcome news is that the update resolves a problem that cropped up when you were browsing TV episodes from your iTunes library on the Apple TV. Starting with iTunes 10.6, programs appeared in unexpected order when you sorted them by show, making it really hard to find what you wanted to watch in large TV-show libraries such as mine. Thankfully, that's a thing of the past (www.itunes.com).—JONATHAN SEFF



iHOME M40 HEADPHONES

Looking for full-size headphones for kids—or for the kid in you? iHome and eKids have partnered to offer the \$25 M40 Over-the-Ear Headphones with Volume Control, a youth-focused version of iHome's iB40 model that sports one of four officially licensed Disney designs: Minnie Mouse, Kermit the Frog (pictured), Phineas and Ferb's Perry the Platypus, and *The Nightmare Before Christmas*'s Jack Skellington. Your favorite character is emblazoned on the adjustable headband, and the matching earpieces offer thick padding. A volume dial on the cable lets you choose the listening level (www.kid.com).—DAN FRAKES

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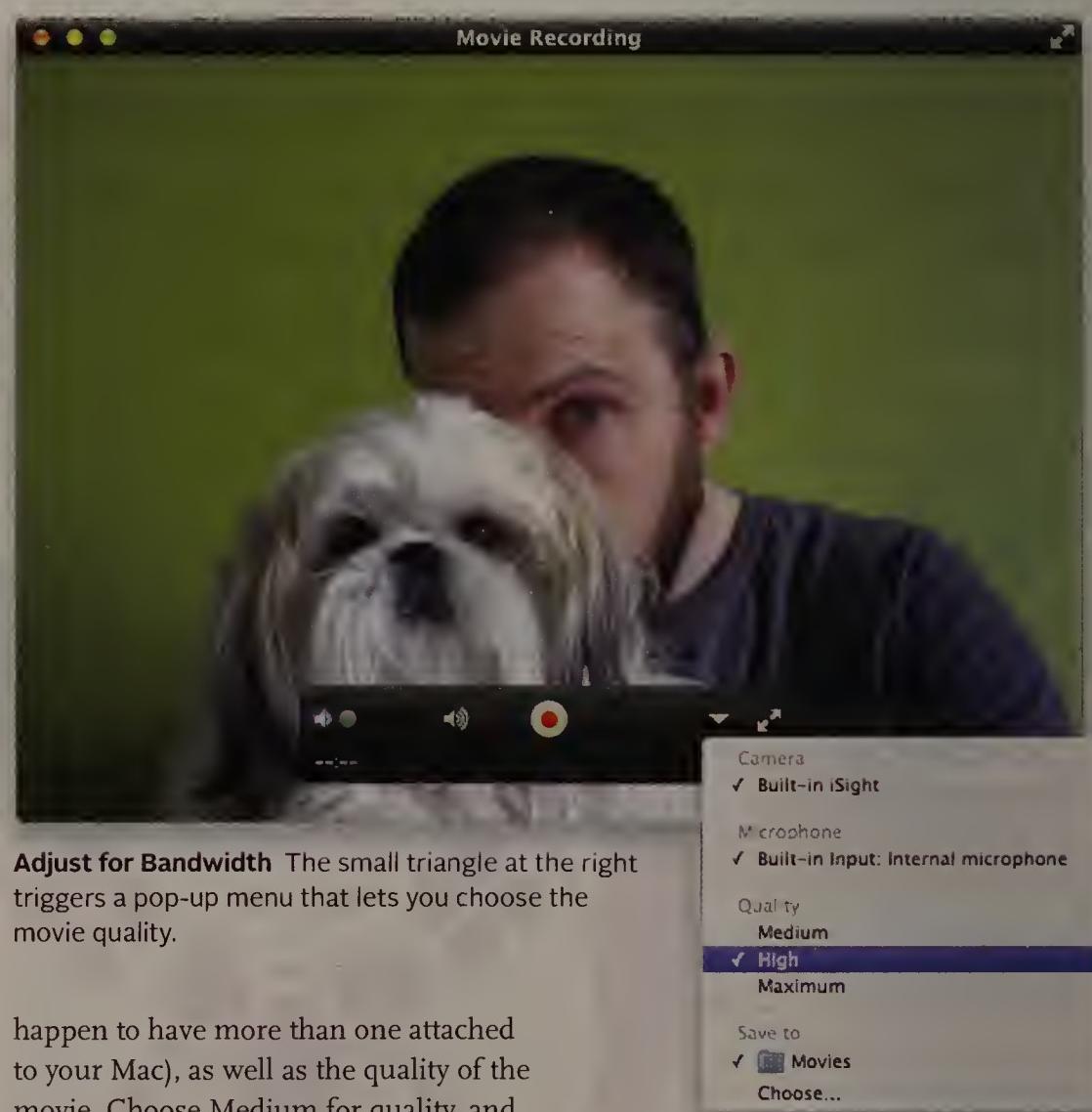
BY CHRIS McVEIGH

FaceTime and Skype make it easier than ever to keep in touch with family, friends, and coworkers. However, video calling isn't always convenient for everyone: Many folks still don't have cameras connected to their computers, and many others don't want to. In these cases, consider sending a short video message to your favorite people—you'll find that 30 seconds of video can convey much more emotion and nuance than any amount of text.

The steps below assume you are running Lion and have a Mac with a built-in iSight or FaceTime camera. (The sequence is very similar in Snow Leopard, though it offers fewer choices and certain menu items are different.) The video files you create are in the H.264 format and are designed to open on any Mac, iPhone, and iPad, as well as on most PCs.

Step 1: Record a Message

Open the QuickTime Player application and choose File ▶ New Movie Recording. A recording window opens, taking up a



Adjust for Bandwidth The small triangle at the right triggers a pop-up menu that lets you choose the movie quality.

happen to have more than one attached to your Mac), as well as the quality of the movie. Choose Medium for quality, and

You'll find that 30 seconds of video can convey much more emotion and nuance than any amount of text.

fairly large portion of your screen. Toward the bottom of this window, you see a floating panel that includes a record button smack in the middle.

To the right of the record button, a small triangle denotes a pop-up menu. Clicking the triangle lets you choose a different camera and microphone (if you

the movie-recording window shrinks to 640 by 480 (from 1280 by 1024) pixels. This helps keep the movie's file size under control.

Now drag the movie-recording window underneath the iSight or FaceTime camera (look for the green light at the top of your display). It's

natural to look at yourself when recording a message, and if you place the movie window near the camera, it will seem more like you're speaking directly to your audience.

When you're ready, click the button to start recording. Don't worry too much about awkwardness at the beginning and end of your clip—you'll be able to trim those parts in the next step.

Try to keep your message between 20 and 40 seconds. The longer you record, the larger the file and the more problem-

atic it will be to compress and email. When you're done recording your message, click the red button.

Step 2: Trim Your Message

Once you've recorded your movie, you can use QuickTime Player's Trim command to pare down the clip, removing any unnecessary, awkward silence from the beginning and end. Choose Edit ▶ Trim, and a trimming bar (which temporarily replaces the recording/playback panel) displays an overview of your entire movie.

Simply grab the yellow tabs on either side and drag them inward, placing them at the points where you want the movie to start and end. You can preview the trimmed movie by clicking the play icon (on the left); if you're happy with the changes, confirm them by clicking Trim (on the right).

Step 3: Compress and Send

Now that your movie is trimmed, you can compress it and prepare to send it via Apple's Mail app. There are two

ways to go about this, and the option you choose depends upon the length of your video message. The ultimate goal is to keep the file size under 10MB. (Otherwise you may annoy your friends and family by sending an overly large email attachment.)

The first option is to use QuickTime Player's direct export to Mail feature. While this sequence works well in Lion, Snow Leopard does not give you the same ability to export directly to Mail. In Lion, choose Share ▶ Mail. An export dialog box slides into view and asks you to choose the export size. Click 480p to limit the data rate to 2 megabits per second (mbps), and then click Share. In a few seconds, Mail automatically opens a message window for you containing the video that you made.

Simply fill out the address field, enter a subject and perhaps a short message, and click Send. (If you're concerned about whether the file size is too large, ⌘-click the movie and choose View As Icon. You'll then see the file size to the right of the filename.)

The second option is for longer messages and is best used with Snow Leopard. Choose File ▶ Export For Web in Lion (Save For Web in Snow Leopard). Give your movie an appropriate name, save it to your desktop, and click Export in Lion (Save in Snow Leopard). Now, locate the folder on the desktop that bears your movie's name. Inside, you'll see a folder called Resources, and within it, several M4V files: for Lion, it's Broadband, Wi-Fi, and Cellular; Snow Leopard offers only Computer and iPhone choices.

In List View, you see the size of each file. Typically, Wi-Fi offers the best compromise between quality and file size, so drag that movie file onto your Mail app icon (in Snow Leopard, choose iPhone). This opens a new message window containing the video; now just fill out the address and subject fields, compose a short message, and click Send.

Chris McVeigh is an author, illustrator and toy photographer who lives in Halifax, Nova Scotia, as well as a regular contributor to Macworld.

THE INCREDIBLE HULKSMASH FONT COMMANDS ATTENTION

Communicating with maximum impact is easy to do when you're using HulkSmash by IronManic designer Gene Buban. Lurking within this font is a group of uppercase heavies set to rumble in homage to the silver screen's most misunderstood humanoid, Marvel Comics' Incredible Hulk. We predict you'll have everyone's attention from the moment you type @YOU.

Don't let the crumbling facade fool you—the 70 characters of HulkSmash have in common rock-solid design. Buban has stretched the latest incarnation of Rob Meek's FontStruct application to the limit. Hours of patient editing within the set's DNA allows this Jekyll-and-Hyde offspring of traditional wood type to stomp straight into the 21st century, bringing with it a limited range of punctuation in both solid and smashed forms. Users can type a quotation mark ("") for a cracked period, an at symbol (@) for a shattered exclamation point, and a slash (/) for a fractured question mark.

The HulkSmash font has limited options for keeping score. It does include a fairly traditional solid numeral set from 0 through 9, but not its cracked alter ego. Then again, what self-respecting avenger font is going to count to ten before charging across the page to deliver the crucial blow?



Buban has demonstrated to us that not every font has to play nice. If you need to let the world know you've had enough in no uncertain manner, feel free to call on his HulkSmash to do the job. If you'd rather be sneaky about it, his excellent Predatonic 2 font may fit the bill.

Sized at 60 points and up, HulkSmash is the perfect attention-getter, but keep it personal even as you think big, and give credit where credit is due. This font is for home use only. Get the font at macworld.com/7785. —KATE GODFREY

Add a Time Stamp to an iMovie file

BY JEFF CARLSON

I hope we can all agree it's a good thing that video cameras no longer burn the date and time into footage the way they used to. If you missed this particular piece of video history, cameras used to have an option to include the date and time on every frame of the video. (Many cameras still do this.)

The feature has a couple of problems: You can never remove the mark, because it's recorded to the film. And all too often the camera's internal clock wasn't set correctly, so that potentially helpful date and time wasn't even accurate.

And yet, sometimes you may want to display that information for documentary purposes or to establish, briefly, when the footage was taken.

All cameras encode date and time data

to the footage they shoot. iMovie can reveal that information where you choose. Here's how to do so in iMovie '08 or later.

- With the footage you want to mark in an active project, click the Titles button to reveal the Titles panel.

- Drag the Date/Time title from the panel onto the top of the footage. As you do, the clip is highlighted in blue; position the title over the middle of the clip to apply it to the entire clip, or move it to the beginning or end of the clip to add the title to just a portion.

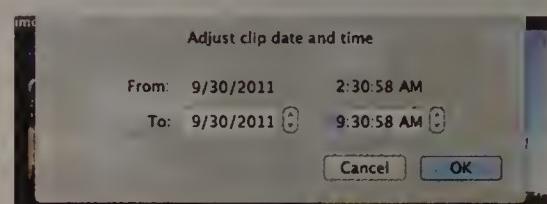
When the title is applied, the date and time appear in the lower left corner of the screen. Unlike with other titles, you can't adjust the font or position of the text (but at least the letters don't look like

they're from a 1980s alarm clock).

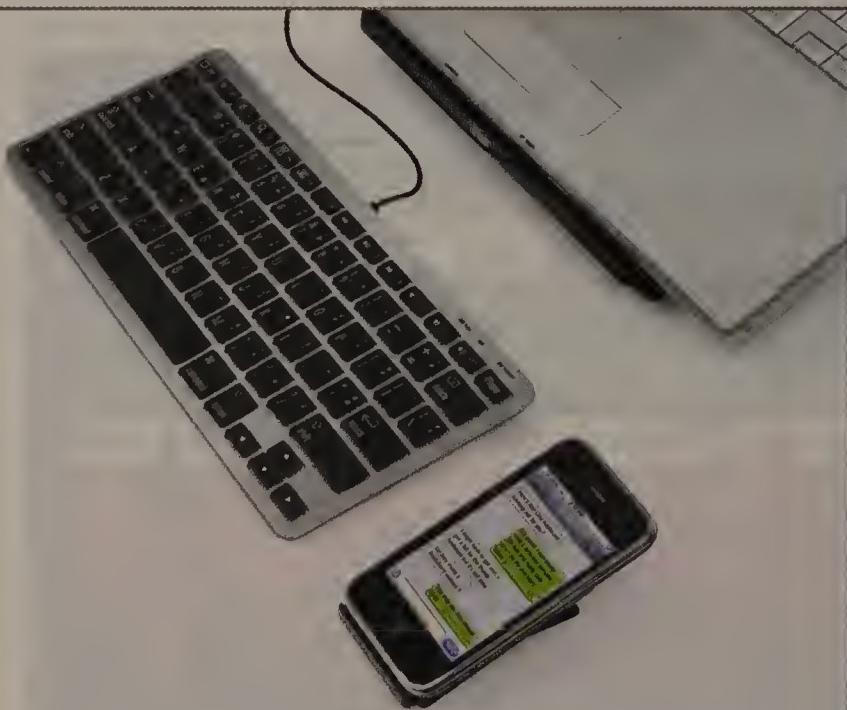
What if the footage shows the wrong time? Even if your camera's clock was set incorrectly, you can fix the time stamp in iMovie.

- Select the clip in the Event browser.
- Choose File ▶ Adjust Clip Date And Time, and then enter the correct information.

iMovie's Date/Time title is a simple tool to use, but it works well when you



No Time Warp Make sure your iMovie time stamp is accurate.



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need to express that information. More important, you get to choose at what point it appears in your movie—because it's not burned permanently into your original footage.

Are you just looking to view a clip's date and time information for your own reference, and not for public display on the video itself? Here's how to accomplish that task.

Choose View ▶ Playhead Info to see a popover that reports the information when you mouse over a clip. By default, time appears as minutes and seconds (for instance, 2.5s), but you can also choose traditional time-code notation (02:15). In iMovie's preferences, just select the option labeled Display Time As HH:MM:SS:Frames.



Time Stamp Add the Date/Time title by dragging it onto a clip.

AppleMount.com

NO brackets or clips.

Mounts in seconds & removes in one!

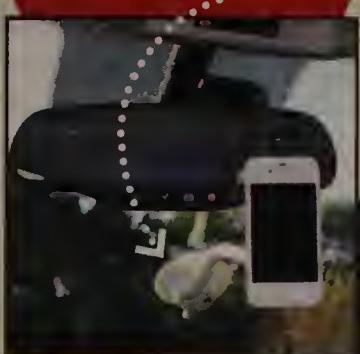
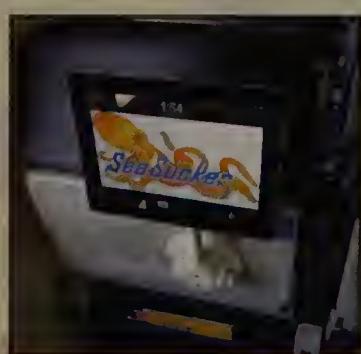
- Our tablet mount is built around the most technologically advanced vacuum mount on the planet. These mounts are surprisingly powerful and have a history of use in critical applications like holding dive tanks secure on boats, attaching bike racks to cars, and even assisting our military.
- Our heavy duty flex-arm allows you to bend and turn your tablet to get your screen into the perfect position.
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Let Your iPad Run Naked!

PATENT PENDING

Quick Tips for Shooting Distinctive Photos

BY DAVE JOHNSON

There are a million or so books about photography on the shelves of your local bookstore. But you don't need to remember a book's worth of tips and tricks to improve your photography. When you get right down to it, a handful of easy techniques can dramatically improve your photos.

Rule of Thirds

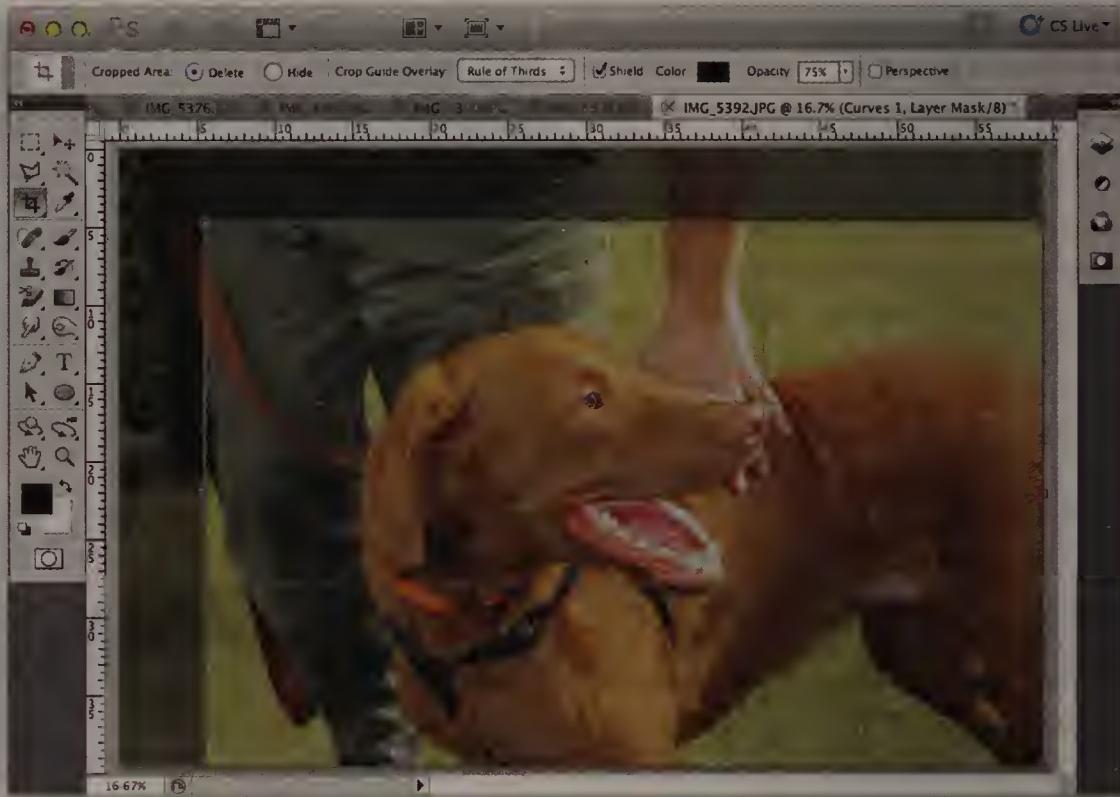
Want to improve your photographic composition? Stop putting your subject in the center of the frame. The "rule of thirds" tells us that photos (and video) look better when the subject is off-center, aligned about a third of the way from the right or left side.

A slew of rules can help you compose eye-catching and engaging photos, but this one rule is perhaps the single most important. To be precise, draw two lines through a photo, dividing it into nine squares—the result looks something like a tic-tac-toe board. The rule of thirds says that the most visually interesting parts are along any one of the lines, or at any of the points where the lines intersect. That gives you a lot of ways to arrange your subject, so take the time to experiment.

Minimize Depth of Field

This is one of those rules that begs to be broken, but if you're just starting out, you'll get some great results by following it to the letter. Shoot your photos so the subject is sharply in focus, but the depth of field is shallow enough to make the background blurry. This creates visual separation and emphasizes the importance of your subject. It also looks really cool.

Depth of field is a measure of how much of the picture is in sharp focus, and you control that with your camera's aperture setting. A small f-stop number gives you a relatively small depth of field—you can dial in a small f-stop number directly in Aperture Priority



The Rule of Thirds This helpful guideline gives you many opportunities to experiment with your photo composition.

mode, or you can set your camera to a scene setting like Portrait mode, which does the same thing.

Use a Fast Shutter for Sharpness

One of the easiest ways to ruin a photo is by shooting with a shutter speed that's too slow, producing the dreaded camera shake. The antidote is pretty simple: Shoot with a faster shutter speed. But how fast is fast enough? A handy rule of thumb has served photographers for 75 years: The shutter speed should be no slower than the inverse of the lens's focal length.

That's actually not as complicated as it sounds. Suppose you're shooting with a camera that has a 50mm lens. You can safely capture a sharp photo if the shutter speed is 1/50th of a second or faster. If you have a 200mm lens, the shutter speed should be 1/200th of a second or faster. And remember that for this guideline to work, you should refer to the 35mm equivalent focal length of the lens.

Eliminate Red-Eye—Avoid Flash

Do you end up with a lot of red-eyed people in your photos? That happens when the light from your flash reflects off the retina of your subjects' eyes, imparting that demonic glow.

There are numerous fixes in photo-editing software such as Adobe Photoshop and Photoshop Elements, and even in iPhoto for both the Mac and iOS, but now that you know why it happens, you can try to avoid it from the start. Alter dark shooting situations by lighting the environment, or simply turn off your flash and rely on ambient light. Also try increasing your camera's ISO to make the most of the available light.

Other options include mounting an external flash on a bracket so that it's located further from the lens, using your camera's Red Eye mode (many newer models have this feature), and having your subjects look away from the camera instead of directly into it. All of these easy tricks can help you avoid a common image flaw.



Photo Measures Calculates Your Space

BY KARISSA BELL

Photo Measures, a \$5 app from Big Blue Pixel, lets users record measurements and dimensions directly onto photos from their iOS devices (4 stars; www.bigbluepixel.com).

The app's clean interface makes it well suited to professionals—contractors or real estate agents—who need to quickly record, save, and share measurements on a regular basis. But it's also convenient for homeowners and apartment dwellers, who can carry around the dimensions of their homes and always know if that bookshelf or picture frame will fit in the space they're thinking of.

Here's how it works: Snap a photo of the room or object for which you want to record measurements (or grab a photo from your camera roll). Once the photo opens, swipe along the part you want to measure with your fingertip. As you draw your lines, a magnifying glass appears in the corner of the photo to ensure accuracy. The app doesn't actually measure distances for you (although it does measure angles), but it makes recording detailed measurements quick and easy, even on the iPhone's small screen. Using it on the iPad's larger screen is, of course, better. In addition to recording measurements, you can insert text boxes for notes and measure angles.

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Vixia HF M40 (pictured) www.canon.com	4 stars 1/2	\$500	Full HD	7477



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PRODUCT	RATING	PRICE ^	TYPE	FIND CODE ^
Coolpix S9100 (pictured) www.nikon.com	4 stars	\$145	12-megapixel	7300
PowerShot S100 www.canon.com	4 stars 1/2	\$399	12-megapixel	6804



DIGITAL CAMERAS

SLR

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Alpha SLT-A55 www.sonystyle.com	4 stars 1/2	\$579	16.2-megapixel	6780
D7000 www.nikon.com	4 stars 1/2	\$1090	18-megapixel	7618
EOS Rebel T3i (pictured) www.canon.com	4 stars 1/2	\$550	18-megapixel	7190



DVD BURNERS

Desktop and Portable

PRODUCT	RATING	PRICE ^	TYPE	FIND CODE ^
d2 DVD±RW w/LightScribe www.lacie.com	4 stars	\$92	desktop	3900
MediaStation 8X External Blu-ray Writer (pictured) www.buffalotech.com	4 stars	\$149	Blu-ray	5344



PRINTERS

Inkjet

PRODUCT	RATING	PRICE ^	TYPE	FIND CODE ^
Pixma iP4920 (pictured) www.canon.com	4 stars 1/2	\$89	snapshot, photo	7478
Artisan 837 www.epson.com	4 stars 1/2	\$300	photo	7784

^ All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. ■ In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.

Once you have entered measurements into the app, you can save and share your photos by exporting them to your photo library or by emailing them as JPEGs or PDF documents. You can also export high-

resolution images and protect images to prevent changes. The only feature the app lacks is integration with a cloud service such as Apple's iCloud or Dropbox to back up and sync photos across devices.

HELP DESK

Answering Your Questions and Sharing Your Tips about Getting the Most from Your Mac

Mac OS X Hints

The insider tips you won't get from Apple

BY KIRK MCELHEARN

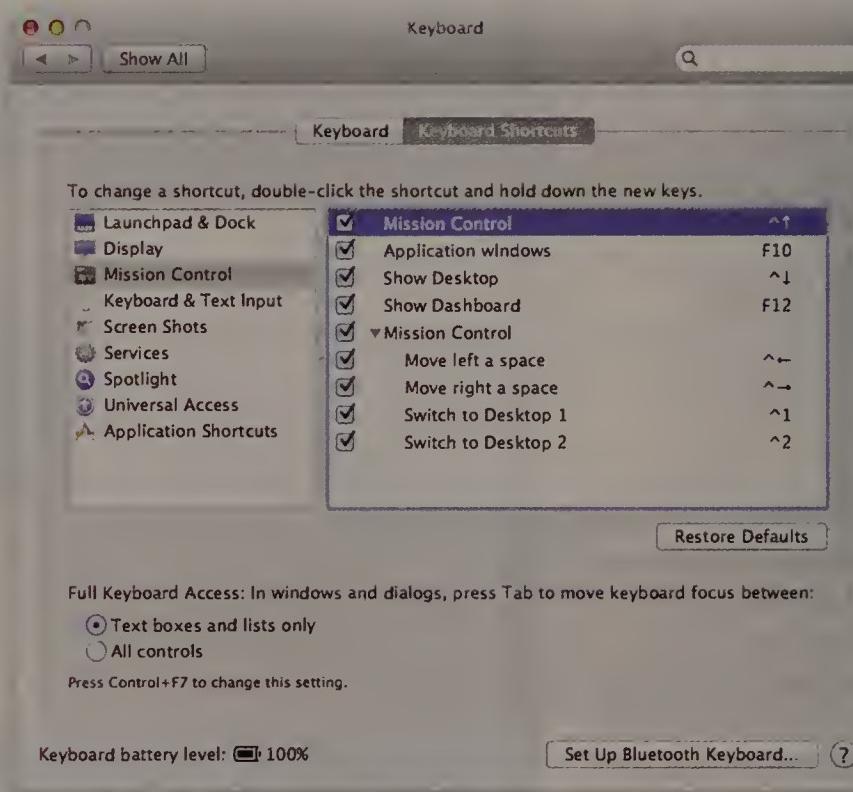
Customize Shortcuts for Mission Control and Dashboard

You probably know that you can choose keyboard shortcuts for Mission Control and Dashboard in the Mission Control pane of System Preferences. But the default shortcuts listed in that preference pane are limited. For Mission Control, for example, you can choose function keys from F1 to F13, but you can't select, say, F14 or F15; you also have a few other options, such as the right and left Shift and Control keys. You can do the same for Dashboard, though you're limited to the same range of function keys.

Fortunately, one *Mac OS X Hints* reader realized that there's another, more flexible way to assign keyboard shortcuts for these system features: Go to the Keyboard pane in System Preferences and, in the Keyboard Shortcuts tab, select Mission Control or Dashboard and enter whatever keyboard shortcut you want. If the system feature doesn't already have a shortcut assigned to it, click in the blank area to its right and type your shortcut. If there's already a shortcut, click on it and replace it with your preferred key combination.

Have a Hint to Share?

Navigate to MacOSXHints.com to submit it. This column was based on tips from Christopher Chan-Nui and anonymous contributors. Each month, the author of our favorite reader-supplied tip is eligible to receive a *Help Desk* mug.



In either case, if you go back to the Mission Control preference pane, you'll see your new keyboard shortcut there. Note that you can use the same procedure to set keyboard shortcuts for many other system features, such as Launchpad, the Dock (to hide and display it), and so on.

Expand .cpgz Archives

Perhaps this has happened to you, too: I recently downloaded a zip archive of freely distributed MP3 files. I double-clicked it to decompress it, but instead of getting the music files, all I got was a .cpgz file—in other words, an archive file in CPIO format (most commonly used on Unix systems). Double-clicking on that file just created another zip file. I clicked on that and got—you guessed it—yet another .cpgz file. I was stuck in a loop.

Custom Shortcuts The Keyboard preference pane gives you more shortcut options for Mission Control and Dashboard.

A Google search revealed that I was not the only person to run into this problem, and it also turned up a number of suggested solutions. Unfortunately, none of them worked for me. Some articles suggested that the downloaded file might have been corrupted and that I should try downloading it again; however, because it was such a large file, I didn't really want to go that route.

The solution for me turned out to be a free utility, *The Unarchiver* (macworld.com/7743). It's like a universal translator, able to decipher and decompress many types of archive files, including some pretty obscure ones. Opening the file with *The Unarchiver* decompressed it correctly.

In some cases, *The Unarchiver* may not work. If that's the case—or if you simply prefer using Terminal—there's one other thing to try when you have a

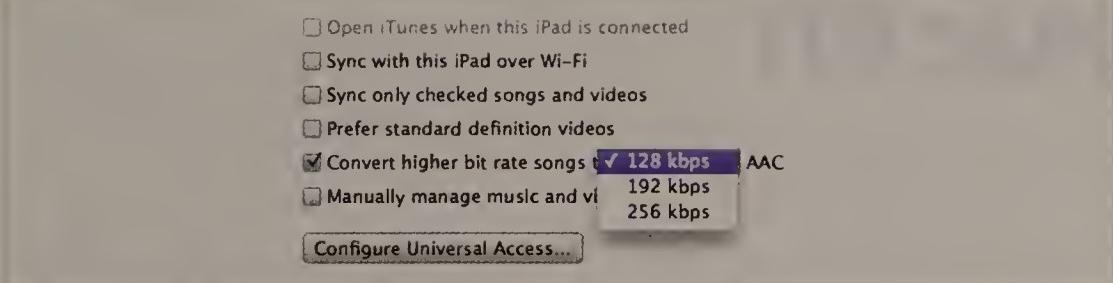
misbehaving .zip file: Use the **unzip** command. Launch Terminal, type **unzip** followed by a space, and then drag your archive into the Terminal window and press Return. With any luck, your .zip file will spill its contents.

Search for Messages by Domain

In versions of OS X before Lion, you could quickly search for messages from a given domain ('macworld.com,' for example) just by typing the domain name in the search field. But such searches are more difficult in Lion's version of Mail. That's because when you type the domain name, the program shows you *all* of the messages sent to or received from that domain, as well as any messages containing that domain as a string of text in the body; it also shows you a drop-down suggestion list of specific senders from that domain.

Turns out there is a way in Lion Mail to refine your searches so they return all of the senders or recipients in a given domain: If you type **from:@domainname**, you see a list of all messages you've received from any email addresses in that domain. You can use **to:@domainname** to look for the messages that you've sent to any addressees in it.

Note that you will see these search results in Mail's message-list pane after you type the search term but before you



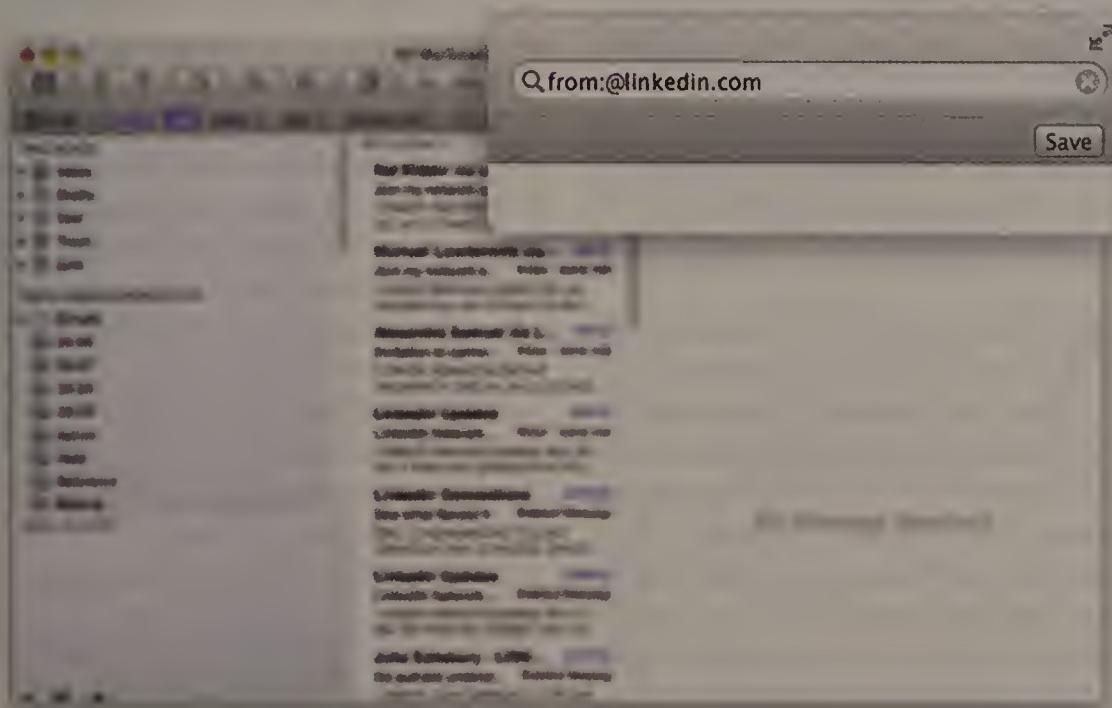
Choose Your Conversion Rate In iTunes 10.6, you can specify the bit rate at which you want to convert tracks that have really high bit rates.

press Return. If you then press Return, Mail converts your search term into a token and treats it literally; in other words, it looks for senders (or recipients) whose addresses consist *solely* of the domain name, and it therefore returns no results.

Access Safari Bookmarks from the Keyboard

If you use Safari's Bookmarks Bar for your favorite websites, you may find it useful to know that you don't need to click on those buttons to visit those sites: You can activate the bookmarks from the keyboard instead.

To do so, press **⌘-1** to go to the first bookmark on the Bookmarks Bar; **⌘-2** to go to the second; and so on. There are two caveats to this technique: It works only on the first nine bookmarks (you can't press **⌘-10**); and it doesn't work on folders in the Bookmarks Bar.



Search by Domain To find all of the messages that you've received from a given email domain in Lion Mail, manually insert **from:@** before the domain name.

But it does work on some bookmarks—those bookmarks that activate some JavaScript to perform an action, such as the bookmarklets used for Instapaper and Readability.

What this means is that you should make sure the bookmarks for the sites you use most often are all on the left of the Bookmarks Bar. That way you can activate them just by pressing the appropriate key combination. Note that these keyboard shortcuts work even if you've hidden the Bookmarks Bar.

Convert Songs at Higher Bit Rates

The recently released iTunes 10.6 has plenty of notable new features, including support for 1080p video and some tweaks to iTunes Match. But many music lovers will appreciate another new feature in particular: In the past, you could automatically convert songs with a high bit rate to a more manageable 128 kilobits per second (kbps) when syncing them to an iPod or iOS device. Now, with iTunes 10.6, you have three bit-rate options for that conversion: 128 kbps, 192 kbps, and 256 kbps.

To access this feature, connect an iPod (or iPhone or iPad) to iTunes, select the device, and go to its Summary tab. At the bottom of that window, in the Options section, you'll see the Convert Higher Bit Rate Songs To option. If you select that option, you can then choose the bit rate you want from a drop-down menu.

Many iTunes users have been hoping for this option for a while. If you have a lossless library, it lets you convert audio tracks with higher quality when you sync your iOS device. Note that this conversion can take a long time the first time around, but subsequent syncs will be much faster.

Mac 911

Solutions to your most vexing Mac problems

BY CHRISTOPHER BREEN

Understand the Apple TV, Mirroring, and Aspect Ratio

Q: I have a new iPad and the most recent Apple TV. It seems like with the resolution the iPad is putting out, I should be able to get 16:9 1080p mirroring from the Apple TV to my television, yet that isn't happening. I still see black bars on each side of my TV when mirroring the iPad.

Tim Rosenthal

A: Although the third-generation iPad packs a load more pixels than the previous model, the display's native 4:3 aspect ratio hasn't changed. So when you pull up the multitasking bar, swipe to the right until you see the iPad's play controls, tap on the AirPlay icon, and choose your Apple TV as the destination, it projects that very same aspect ratio to your Apple TV (see "Activating AirPlay"). This is no different with the second-generation Apple TV.

That takes care of the interface and the vast majority of your iPad's apps. However, there are exceptions. If you have widescreen movies or TV shows on your iPad (these can be either 1080p or 720p video), they appear on the TV and fill the screen from edge to edge, though not necessarily from top to bottom, because not all widescreen video is 16:9. Supported streaming video such as HD content from Netflix also fills the width of the screen. Some apps also support widescreen projection—Firemint's Real Racing 2 HD (firemint.com), for example.



Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) to ask about your misbehaving Macs and applications.



Activating AirPlay To mirror your new iPad to your Apple TV, move to the iPad's multitasking bar, tap the AirPlay icon, and choose the Apple TV.

Cures for an Uncooperative CD/DVD Drive

Q: My MacBook's internal CD/DVD drive reads DVDs just fine. However, it's less tolerant of CDs. Sometimes it loads them, other times it balks. Any suggestions for a fix?

Ned Mitchell

A: Some people have suggested that this can be fixed by reinstalling the Mac OS or zapping the computer's PRAM. (Start up the Mac and hold down the ⌘-Option-P-R keys until you hear two startup tones, and then let go of the keys and allow the Mac to start up normally.) But these aren't surefire solutions. More likely, the drive's lens is dirty or the drive is simply broken (or nearly so).

If your MacBook is still under warranty or you have AppleCare for it,

put it in Apple's hands. The company isn't shy about replacing these drives when they exhibit such behavior.

If the Mac is out of warranty, you can try fixing it yourself provided that the problem is related to a gunked-up lens. You can purchase drive-cleaning kits intended to brush away crud from the lens. Some people have also had success using a can of compressed air to blow dust off the lens. Others say it's worth a try to wrap a credit card in soft cotton cloth, apply some denatured alcohol to the cloth, and swipe the cloth-covered card in and out of the drive slot a few times. Still others recommend that to do the job right, you need to open the Mac, extract the drive, and clean the lens with a cotton swab and denatured alcohol. iFixit (www.ifixit.com) can show you how to open your MacBook and remove its media drive.

If nothing you try works, it's time to look at a replacement drive. An internal replacement drive will set you back around \$100 and requires that you remove the old drive and install the new one. If you don't need the convenience of an internal drive, you can purchase a compatible external USB drive for around \$30.

Make Lion's Desktop Spaces Stick

Q: I like Lion's full-screen applications and Mission Control features. Typically I run four desktops. The problem is that if I am on Desktop 1 and I click a full-screen application from the Dock to switch to it, switching reorders the Mission Control arrangement—shifting the application I've selected to the position just after Desktop 1. Is there a way to keep the desktops in their original order?

Bradford Poirier

A: Launch System Preferences, select Mission Control, and uncheck the Automatically Rearrange Spaces Based On Most Recent Use option. When you do that, you can use the Dock to switch to different desktop spaces with the confidence that all of your spaces will remain exactly as you originally configured them—Desktop 1, Desktop 2, and Safari in full-screen mode, for example.

Of course, you still have the option to manually rearrange the spaces by calling up Mission Control and dragging the resulting spaces to different positions. With that Automatically Rearrange option off, the desktops will remain in the new order you imposed.

How to Delete Files Securely

Q: I've heard that placing files in the Trash and then deleting them doesn't really remove them. How do you delete a file completely and forever?

Steve Carter

A: When you toss a file into the Trash and then empty it, the file isn't gone. It remains but is removed from

Bugs & Fixes

BY TED LANDAU



Troubleshoot Journals in

iPhoto for iOS

iPhoto for iOS's Journals feature is a spanking-new option, not yet available in the Mac version of iPhoto, which allows you to create and publish photo albums. In essence, it replaces (and improves upon) MobileMe's Gallery. But it's not without its problems.

For example, exporting a journal to your Mac can be problematic. To export a journal, open the desired journal in iPhoto and tap the Share icon. From the choices that appear, tap the iTunes icon.

To access the folder on your Mac, connect your iOS device to your Mac and launch iTunes. Select the device from the Devices section. From here, click the Apps tab and scroll down to the File Sharing section. Locate iPhoto. Your journal should be listed in the Documents section on the right. You can drag the journal to your desktop.

However, when I went to the File Sharing section within the Apps tab in iTunes, there was no iPhoto entry. This meant I couldn't access the journal I had just exported. iPhoto was not the only app missing from File Sharing. GarageBand, Keynote, Numbers, and GoodReader were absent as well. Adding to the mystery, after I ejected the iPad and/or quit and relaunched iTunes, a different subset of apps would typically appear. For example, on the next occasion, GarageBand and GoodReader returned, but Pages was gone. If I kept trying, iPhoto would eventually show up and I could complete the export.

As an aside, I am very, very disappointed that iTunes File Sharing is required for iPhoto exporting. As I have written before, I see this iTunes "feature" as one of the worst file-sharing user interfaces ever designed. Happily, in recent months, Apple has begun to shift to iCloud, rather than iTunes, for iOS file sharing. The return of iPhoto sharing to the iTunes interface is a step backward. It's especially mystifying given that journals are published to iCloud; why not use iCloud for sharing as well? My guess is that iTunes is an interim solution. Perhaps after Apple updates iPhoto for the Mac to include Journals support (which I assume it will), we'll see an iCloud-based export alternative. I certainly hope so.



Bluetooth Hotspot Doesn't

Connect to Internet

I have been testing the hotspot capability of my new iPad with Verizon cellular service. It works fine over Wi-Fi or USB. However, I have been completely unable to get a hotspot to work via Bluetooth. I can pair my iPad with my MacBook Air. I can even establish what appears to be a working hotspot connection over Bluetooth. But, when all is said and done, I can't get online. For example, webpages won't load. Again, this only happens for Bluetooth hotspots.

Senior Contributor **Ted Landau** is the founder of MacFixIt (www.macfixit.com). Share your problems at bugs@macworld.com or on Macworld.com's Mac 911 forum.

your Mac's file directory. With the proper recovery tools, you can recover that file, as long as other files haven't overwritten the portion of the drive it once occupied.

To delete a file so that it's unrecoverable, toss the file into the Trash and choose Finder ▶ Secure Empty Trash. When you do this, not only is the file removed from the Mac's directory, but the hard-drive space it occupied is overwritten with junk.

While you can't go back and target specific deleted files for this kind of erasure, you can erase the free space on your Mac's hard drive. This process seeks out any areas of the drive marked as available for new data and overwrites them with junk.

To do this, launch Disk Utility (/Applications/Utilities), select the drive that you want to work with, click the Erase tab, and click Erase Free Space. A sheet appears

that offers different levels of erasure. With Snow Leopard, this sheet offers Zero Out Deleted Files, 7-Pass Erase Of Deleted Files, and 35-Pass Erase Of Deleted Files. Under Lion, you have the option to zero out files or overwrite them three or seven times (see "Erase the Space").

The default setting is to zero out deleted files, which writes zeros over the drive's free space. It's adequate for most people. Alternatively, you can choose one of the other options, with the understanding that though they overwrite your data more thoroughly, they take a very long time to do so.

Make sure that you have a backup of your data just in case something goes wrong during the erasure process.

Converting CDs to Windows-Compatible ISO Images

Q: I'm trying to install the software for my Canon printer on my husband's Windows 7 PC. The software

Erase the Space

Use the Erase Free Space Options in Disk Utility to overwrite your drive's free space with nonsense data. Under Lion, you use a slider to perform this task. If you're running Snow Leopard, you use a series of radio buttons.

Erase Free Space Options

These options write over the unused space on the selected disk or volume to prevent disk recovery applications from recovering deleted files.

Note: Secure Erase overwrites data accessible to Mac OS X. Certain types of media may retain data that Disk Utility cannot erase.



install CD is compatible with both the Mac and Windows, but, unlike the Mac, the PC doesn't have a media drive. Is there some way to copy this CD to a USB thumbdrive so that I can use it with the PC?

P.J. Schultz

A: Insert the CD in your Mac's media drive and then launch Disk Utility (/Applications/Utilities). When Disk Utility launches, you'll see the CD listed on the left side of the Disk Utility window. Most likely that CD will have more than one listing—the

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name of your media drive (SuperDrive, for example), followed by Session 1, and then the name of the CD. Select the first of these names—SuperDrive, in this example.

Click the New Image button at the top of the window and, in the resulting sheet, choose DVD/CD Master from the Image Format pop-up menu. In the Save As field, give the image an intuitive name such as Canonprinter and click Save. Disk Utility creates a disk image called, per our example, Canonprinter.cdr.

Next you copy that image to your USB thumbdrive. Unplug the thumbdrive from the Mac and move it to the PC. Now copy the disk image to the PC. Select the file name, remove the .cdr extension, and then replace it with .iso. (In this case, the disk image would now be called Canonprinter.iso.) On the PC, download a copy of SlySoft's free Virtual CloneDrive (www.slysoft.com). This utility allows you to mount ISO

X MAC 101

Quickly Print Files from the Finder

Q: Is there some way to quickly print a single copy of a file without having to go through a print dialog box?

Warren Lane

A: Open System Preferences, choose the Print & Scan (Lion) or Print & Fax (Snow Leopard) preference pane, select your default printer, and drag it to the desktop. Do this and you create a desktop printer.

To print a quick copy, just drag a file (or multiple files, if you like) on top of the desktop printer icon, and your printer then prints a single copy of your file or files.

Regrettably, there's no systemwide command for quickly printing one copy of a document from within an application without invoking the print dialog box. A few applications support such a thing—Microsoft Office applications, for example—but as printing is increasingly an old-school activity, I wouldn't hold my breath waiting for other applications to implement such a feature.

images as if they were hard drives or removable media.

Double-click the Canonprinter.iso file and an AutoPlay window appears.

Choose the Open Folder To View Files option. You should see the Windows installation files for your printer. Install them just as you would from the CD.

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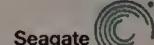
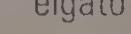
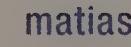
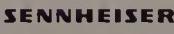
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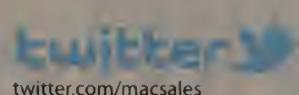
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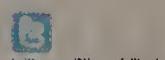
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As Apple products get easier to use, are they breeding technological passivity?

I was installing a new Gmail client on my three-year-old MacBook Pro when I idly glanced at the guy sitting next to me at the café. He was beavering away on his own Pro, a top-of-the-line model, much newer than mine. I took him for a well-paid tech professional—until I snuck a peek at his Dock. Finder, Launchpad, Mission Control, iChat, iPhoto, GarageBand, iMovie, Photo Booth: There they were, all lined up, just like they are the day you first turn on your computer—you know, before you customize your Dock to get rid of the applications you don't use and add the ones you do.

When I indignantly tweeted about it, my online pals argued for the tech equivalent of a citizen's arrest. Why not force a trade, since this guy was clearly unworthy of his awesome new Mac? But I had to admit I'd already lost the war: More and more Mac users are complacent technology-takers, instead of inventive technology-makers.

Makers versus Takers

Unlike makers, takers do what they're told. They leave their Macs in their default configurations. They buy every system upgrade the person at the Genius Bar recommends. Overwhelmed by the complexity of their alternatives, they retreat into the App Store, where the choices are made for them.

But there was a time when making complicated choices was the Mac user's province and privilege; using a Mac forced you to take control of your own computer. My enthusiasm for Apple, combined with some operating constraints (residing in Canada, working in a Windows office, living on a budget), led me to tackle all sorts of crazy projects—jailbreaking an iPhone from the United States before it was available in Canada; hackintoshing a PC netbook because I couldn't afford a MacBook Air; and on and on.

As time-consuming and frustrating as those experiments often were, they also made me an empowered Mac user—or, more accurately, an empowered *technology* user. The same fearlessness that enabled me to hack Macs and iPhones also empowered me to try new software, new tools, new services—and, more important, to reject the ones that didn't work for me.

Is Simpler Better?

These days, being a Mac user just isn't as hard as it used to be. The iPod, iPhone, and iPad make it easier to be a Mac user, since so many iOS apps have Mac (but not necessarily Windows) counterparts. The advent of iCloud makes living an all-Mac lifestyle arguably the easiest option for a dedicated iPhone or iPad user who wants everything to just work.

However, you still need to make some choices—if not about the hardware you use, then about the software you allow on it, the networks you connect it to, the online services you use, and the informa-

tion you share. Some new Apple users may be ill equipped for those choices. They're so spoiled by the effortless, self-contained, and controlled experience of today's Apple devices that they don't know how to make their own rules.

But inventing your own path is essential, unless you want someone else—in IT or at the Apple Store—to decide the kind of phone you'll get or the software tools that will be installed on (or barred from) your Mac.

Just as crucially, you need to decide what you won't do: which emails you'll leave unanswered, which social networks you'll pass over, which software updates you'll skip because, actually, things are working for you just fine the way they are. Technological passivity can just as easily cause you to work too hard and consume too much as it can leave you stale-dated and left behind.

Apple's success at providing a great user experience could make passivity the new norm. Thanks to improvements in the range, functionality, and usability of Apple's products and services, even a multidevice freak like me can be lulled into making do with a locked-down iPhone, the simplicity of iCloud, or the ease of a MacBook Air.

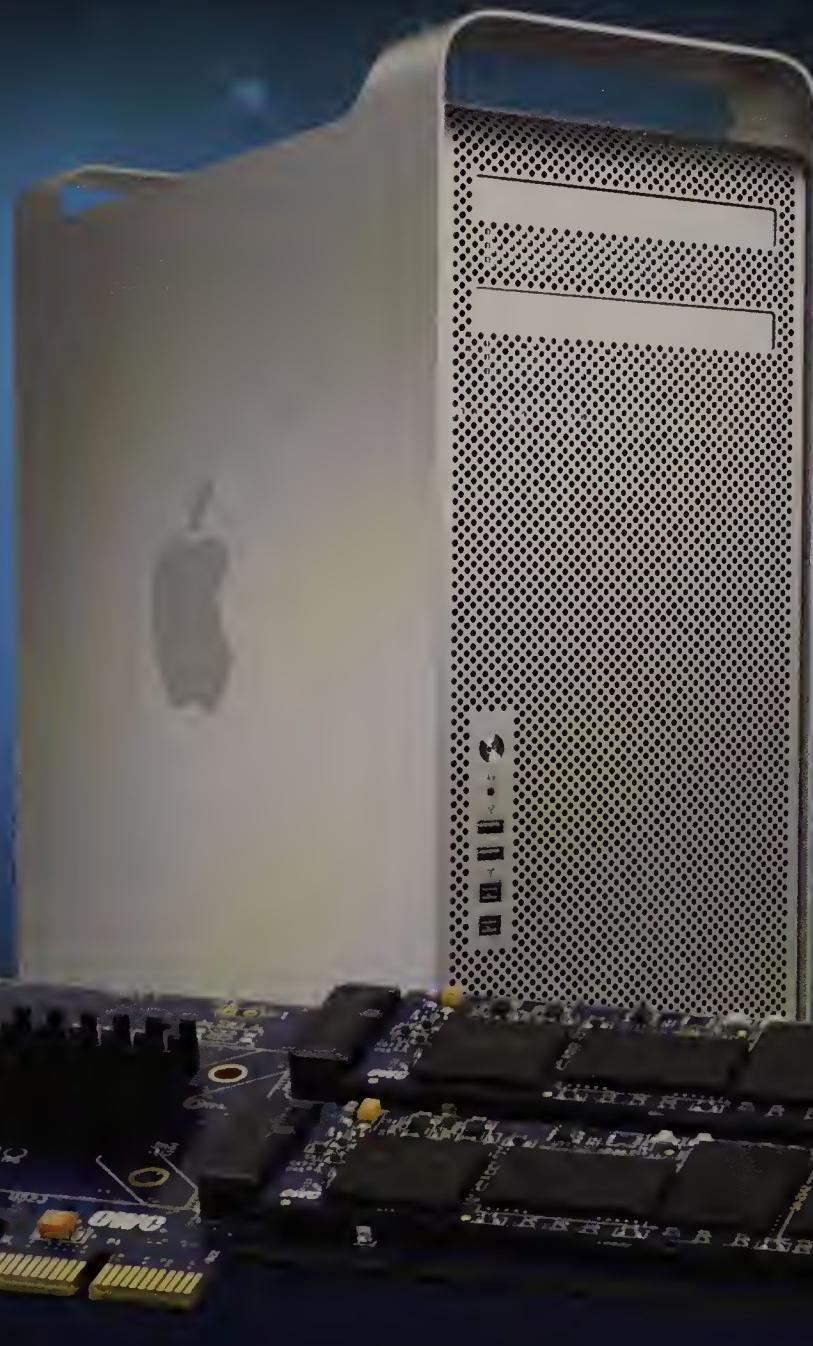
But I'm not willing to let Tim Cook call all the shots. So I'll continue to run an idiosyncratic regime held together by an eclectic set of donationware, cloud-based applications, and warranty-voiding jailbreaks that make each of my devices work the way I like. They make my Mac—my old, beat-up, gloriously retrofitted MacBook Pro—mine.

It's a power and a joy that each Mac user can reclaim. You can start by customizing that Dock.

Alexandra Samuel is the director of the Social + Interactive Media Centre at Emily Carr University of Art + Design in Vancouver, British Columbia.



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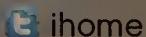
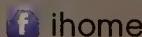
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